Cumulative Author Index Volumes 11-30

Agblevor, F.A., **30**, 125
Ahmed, A., **14**, 281
Ahmed, E., **17**, 153
Aho, M., **11**, 149, **15**, 297
Ainad-Tabet, D., **13**, 171
Aizenshtat, Z., **14**, 49, **14**, 73, **19**, 265, **22**, 153, **27**, 131, **28**, 231
Al-Sayegh, A.J., **14**, 323
Alajbeg, A., **12**, 275
Albrechtsen, R.S., **22**, 1
Alexandrescu, R., **18**, 71
Almén, P., **25**, 243
Almendros, G., **25**, 137, **27**, 57
Alves, S.S., **13**, 123, **15**, 347, **17**, 37
Aly, M.M., **23**, 57
Angelino, S.A.G., **20**, 73
Anger, J.P., **16**, 183
Antal, Jr., M.J., **12**, 223, **14**, M.J., **14**, 149, **26**, 159
Aoyagi, Y., **21**, 95
Arauzo, J., **24**, 257, **30**, 145
Aravind, R., **28**, 255
Aribilce, D.S., **14**, 37
Arisz, P.W., **15**, 71, **19**, 65, **25**, 371
Arnold, N.S., **28**, 55
Arpiainen, V., **16**, 355
Arrendale, R.F., **17**, 25
Atalla, A.A., **22**, 107
Atalla, A.A.N., **29**, 65
Atay, T., **22**, 197
Atkinson, D.J., **19**, 319
Attalla, M.I., **23**, 73
Audisio, G., **11**, 263, **11**, 539, **12**, 135, **15**, 137, **24**, 61, **28**, 205, **28**, 275
Ayache, J., **17**, 329

Baas, M., **26**, 175
Bach, G., **17**, 201, **27**, 45
Backa, S., **25**, 209
Baer, N.S., **20**, 229, **25**, 77
Baer, N.T., **15**, 393
Bahattin Soydan, A., **22**, 197
Baker, R.R., **11**, 555
Balbi, P., **11**, 539, **15**, 137
Baldo, L.,**24**, 87
Bale, S.J., **25**, 265
Ballistreri, A., **12**, 3, **16**, 239
Baltes, W., **13**, 191, **15**, 159, **17**, 91, **19**, 131, **27**, 145
Bar, H., **14**, 49, **14**, 73, **19**, 265
Barbooti, M.M., **13**, 233
Barbour, M., **11**, 163
Barker, C., **13**, 9
Baronnet, F., **12**, 243, **16**, 345, **19**, 29
Barron, D.A., **16**, 37
Bartholin, M., **11**, 251
Basily, I.K., **17**, 153
Bassilakis, R., **19**, 1
Bastiaanse, H.B., **14**, 309
Bastl, Z., **28**, 175
Battin, F., **16**, 345
Bauer, M.R., **14**, 7
Baugh, P.J., **29**, 153
Baugh, S.F., **30**, 47
Baumgärtel, G., **27**, 15
Beal, E.J., **22**, 73
Bemalte-Garcia, A., **12**, 61
Bennini, S., **21**, 305
Bergamasco, G., **23**, 165
Bergmann, G., **28**, 1
Bergman, H., **24**, 163
Beringer, J.E., **22**, 19
Berkeley, R.C.W., **22**, 19, **25**, 265
Bernalte-Garcia, Mª.J., **12**, 61
Berns, J., **25**, 335
Bertini, F., **24**, 61, **28**, 205, **28**, 275
Bertóti I., **13**, 135
Berwald, L, **21**, 221
Besler, S., **30**,17
Beyer, L., **27**, 169
Bhatnagar, H.L., **11**, 465
Biçak, N., **22**, 197
Biggs, C.A., **25**, 407
Bilbao, R., **24**, 257, **30**, 145
Billaud, F., **11**, 39, **12**, 243, **19**, 29, **21**, 15, **25**, 395, **29**, 183
Billiani, G.H., **16**, 221
Blackwell, I.G., **11**, 54
Blasco, J. **19**, 193
Blasco, J.M., **18**, 117
Blazsó, M., **11**, 125, **11**, 233, **11**, 245, **15**, 175, **25**, 25
Blazsò, M., **19**, 251, **19**, 301 **29**, 207
Bloomfield, J., **27**, 1
Bo, P., **15**, 373, **19**, 15, **25**, 229
Bobrov, B.N., **26**, 185
Boinon, B., **13**, 171
Bonnefoy, F., **25**, 387
Boon, J.J., **17**, 97, **19**, 65, **19**, 153, **19**, 175, **19**, 213, **20**, 25, **20**, 47, **20**, 197, **20**, 275,

20, 303, **22**, 239
Boon, J.J., **11**, 125, **11**, 313, **11**, 377, **11**, 417, **11**, 437, **14**, 237, **15**, 71, **15**, 97, **15** 29, **15**, 319 **15**, 333, **25**,63, **25**, 77, **25**, 149, **25**, 371
Borchers, G., **17**, 319, **19**, 119
Bouster, C., **15**, 249
Bouwman, J., **11**, 329
Bracewell, J.M., **11**, 355
Bradna, P., **21**, 207, **24**, 75
Bremer, J., **21**, 147, **22**, 239
Britt, P.F., **25**, 407
Bruneau, C., **16**, 183
Buchanan III, A.C., **25**, 407
Budzikiewicz, H., **17**, 237
Burnham, A.K.., **14**, 1
Buryan, P., **22**, 83
Bykov, V.I., **16**, 57

Caballero, J.A., **27**, 221
Čadanović-Brunet, J.M., **21**, 233, **28**, 157
Calabuig, F., **28**, 107
Calaminus, B., **27**, 281
Calvert, G.D., **16**, 5, **18**, 293
Calvert, G.D., **14**, 295
Camino, G., **11**, 251, **11**, 511
Cannorl, S A., **14**, 115
Carangelo, R.M., **19**, 1
Carlsen, L., **19**, 15, **24**, 311, **26**, 185
Carlsen, L., **11**, 25, **15**, 373, **25**, 229, **25**, 361
Casanovas, A.M., **11**, 227
Cassoux, P., **24**, 39
Castillo, S., **21**, 305
Catinella, S., **23**, 165
Cecchetti, W., **23**, 165
Cecchinato, F., **23**, 165
Challinor, J.M., **16**, 323, **18**, 233, **20**, 15,, **25**, 349 **29**, 223
Charpenay, S., **19**, 1
Chaverot, P., **11**, 39
Chen, B.-J., **23**, 87
Chen, J., **21**, 327
Chen, Q., **21**, 27, **21**, 51
Chen, C., **18**, 175
Chiavari, G., **15**, 129, **20**, 253, **21**, 239, **24**, 123, **24**, 227
Chornet, E., **19**, 81, **27**, 25
Chortyk, O.T., **12**, 193, **17**, 25, **22**, 231
Chou, C.-L., **30**, 91
Chou, M.-I.M., **13**, 199
Choukroun, R., **24**, 39
Christiansen, J.V., **24**, 311, **25**, 229
Chu, C.J., **14**, 99, **14**, 115
Cohen, Y.. **22**, 153, **27**, 131, **28**, 231
Côme, G.M., **16**, 345
Comellas, L., **19**, 193
Commandeur, J.M., **19**, 65
Conesa, J.A., **30**, 121
Cooley, S., **14**, 149
Cooney, J.D., **18**, 163
Corana, F., **29**, 15
Cordero, T., **18**, 117
Costa, L., **11**, 251, **11**, 511
Coste, M., **24**, 179
Cottee, F.H., **11**, 549
Creek, K.E., **24**, 107
Crepaldi, G., **24**, 87
Crisp, P.T., **14**, 191
Cross, C.W., **16**, 191
Cui Hongwu **15**, 383
Cullis, C.F., **11**, 451
Curcuruto, O., **24**, 87
Currie, L A., **14**, 83, **18**, 189
Curry, C.J., **11**, 213
Cutler, A.H., **12**, 223
Czernik, S., **16**, 127

Daenens, P., **23**, 43
Daniel, S.R., **21**, 1
Daugherty, K.E., **17**, 169
Davidson, R.G., **16**, 143, **21**, 181
Day, M., **18**, 163
de Leeuw, J.W., **11**, 125, 287, **11**, 313, **11**, 367, **11**, 437, **15**, 121, **15**, 29, **15**, 289, **16**, 377, **20**, 125, **20**, 141, **26**, 175, **27**, 155, **28**, 183
de Pooter, M., **11**, 287
De Groot. B., **20**, 275
De Wit, P., **20**, 321
De La Iglesia-Gayá, B., **18**, 219
De Waart, J., **11**, 329, **18**, 245
De Pooter, M., **11**, 287
Deglise, X., **12**, 301, **21**, 265, **22**, 39, **22**, 47
DeGroot, W.F., **13**, 221
del Río, J.C., **25**, 137, **28**, 71
Delfosse, L., **27**, 281
Delperier, B., **13**, 141
DeLuca, S.J., **23**, 1, **24**, 1, **24**, 211
Deng, L., **21**, 327
Dentchev, T., **16**, 335
Dentzer, J., **24**, 333
Derenne, S., **15**, 29, **27**, 155 , **28**, 183
Dermietzel, J., **13**, 259
Devesa, J., **21**, 249, **27**, 245 , **28**, 13
Djilas, S.M., **21**, 233, **28**, 157, **29**, 103
Donnot, A., **21**, 265, **22**, 46, **22**, 47
Dragalov, V.V., **25**, 311
Dubey, V., **27**, 207
DuBow, J., **28**, 55
Dueppenbecker, S.J., **20**, 107
Dumler, R., **16**, 153
Durfee, S.L., **14**, 7, **21**, 1
Durig, J.R., **13**, 63, **14**, 295, **16**, 5, **16**, 37, **18**, 293
Dworzanski, J.P., **21**, 221
Dwyer, J., **29**, 45
Dyrkacz, G.R., **20**, 151
Dziedzinl, P., **24**, 333

Ebrahim, M.M., **27**, 109
Edmonds, A.N., **26**, 93

Eglinton, T.I., **20**, 25
Egsgaard, H., **11**, 25, **24**, 311, **25**, 229, **25**, 361
Ehrburger, P., **15**, 275, **24**, 333
Eiceman, G.A., **13**, 243
Eijkel, G.B., **11**, 417, **14**, 237, **15**, 71, **19**, 213, **20**, 303
Ekinci, E., **29**, 25
Ekvall, K., **24**, 163
Elie, M., **29**, 137
Ellis, J., **14**, 191
Elyahyaoui, K., **19**, 29
Emons, A.M.C., **25**, 255
Enke, C.G., **14**, 7
Erçikan, D., **29**, 25
Ericsson, I., **14**, 219, **17**, 251, **25**, 243
Esser, W., **22**, 61
Esterle, J.S., **14**, 295, **16**, 5, **18**, 293
Evans, J.O., **17**, 5
Evans, J.O., **14**, 223
Evans, R.J., **30**, 125
Faix, O., **11**, 403, **14**, 135, **21**, 147, **22**, 239, **25**, 185, **25**, 335
Favretto, D., **24**, 87
Fedele, D., **24**, 87
Feldthus, A., **15**, 373, **25**, 229, **19**, 15, **24**, 311, **26**, 115
Fernández-Sánchez, E., **18**, 219
Ferretti, S., **20**, 253
Fetterolf, D.D., **11**, 15
Feurer, R., **24**, 51, **26**, 27
Fidalgo, M.L., **27**, 57
Fields, R., **29**, 45
Fife, W.K., **28**, 175
Fifer, R.A., **12**, 83
Figueiredo, J.L., **13**, 123, **15**, 347, **17**, 37
Fink, J.K., **16**, 221
Fink, J.K., **11**, 277
Fiquet, J.-M., **16**, 269
Fischer, W.G., **25**, 37
Font, R., **21**, 249, **23**, 99, **27**, 221, **27**, 245, **28**, 13, **30**, 101
Fortes, I.C.P., **29**, 153
Fortmann, I., **14**, 135, **22**, 239
Fox, A., **18**, 97, **19**, 237
Francjoso, O., **15**, 129
Franck, J., **19**, 311
Freeman, R., **28**, 29, **28**, 39
Freund, E., **11**, 39
Froment, G F., **21**, 27, **21**, 51
Fu, R., **18**, 79, **21**, 327
Fu Ruonong, **14**, 163
Fujimura, Y., **17**, 83, **17**, 181, **17**, 371, **22**, 179
Fujitsu, H., **21**, 95
Fukushima, K., **11**, 109
Funazukuri, T., **13**, 103, **17**, 47

Gaber, A.M., **22**, 107
Gaber, M., **23**, 57
Gaboriaud, F., **21**, 119
Galletli, G.C., **15**, 129, **19**, 203, **20**, 253, **21**, 239, **21**, 281, **23**, 135, **24**, 123, **24**, 139, **24**, 227, **24**, 243, **25**, 195, **27**, 1, **27**, 57, **27**, 187
Gallo, R., **11**, 263
Gandhe, B.R., **11**, 233, **27**, 207
Ganesh, K., **29**, 207
Garcia, P., **24**, 257
Garcia Domínguez, J.A., **16**, 75, **18**, 219
García, A.N., **23**, 99, **27**, 221
Gardner, P., **25**, 11
Garg, B.S., **23**, 63
Garg, S.K., **23**, 63
Garozzo, D., **12**, 3, **16**, 239
Gassiot, M., **19**, 193
Gatellier, J.-P.L.A., **27**, 155
Ge, B., **21**, 327
Gehrhus, B., **28**, 81
Gelin, F., **27**, 155 , **28**, 183
Gellerstedt, G., **19**, 139
Genuit, W., **11**, 125
Georgakopoulos, C., **23**, 15
Georgakopoulos, K., **20**, 65
Gerard, L., **29**, 137
Gerhardinger, C., **24**, 87
Gethner, J., **20**, 87
Ghosh, B., **13**, 209
Gieralc, A., **13**, 89
Gilbert, T.D., **11**, 93
Gilot, P., **25**, 387, **27**, 119
Giuffrida, M., **12**, 3, **16**, 239
Giuliani, J.D., **20**, 151
Goel, S.P., **18**, 91
Gogotsis, D., **29**, 73
Golloch, A., **25**, 37
Gomez-Alarcon, G., **20**, 239
Gomez-Martin, J.P., **18**, 117
Gómez-Serrano, V., **12**, 61
González, A.D., **27**, 57
González-Vila, F.J., **25**, 137, **28**, 71
Goodacre, R., **22**, 19, **26**, 93
Goubet, D., **24**, 139
Govers, H.A.J., **20**, 303
Granada, E., **19**, 193
Gray, N.R., **20**, 87
Greef, J. van der, 329
Gregorski, K.S., **11**, 341
Griffin, R.A., **13**, 199
Grigorieva, E.N., **16**, 57
Grimaldi, D.A., **25**, 77
Grinshpun, A., **12**, 39
Grittner, N., **25**, 293
Grobe, I., **11**, 403
Groves, S.A., **19**, 301
Grunwald, C., **25**, 335
Gu, P., **24**, 147
Guelzim, A., **21**, 119
Guéret, C., **29**, 183
Guevremont, R., **15**, 85
Gulati, A., **18**, 91
Gupta, N., **26**, 131

Gupta, S.K., **26**, 131, **28**, 255
Gur, I.S, 465
Gusel'nikov, L.E., **14**, 345, **16**, 87, **17**, 201, **21** , 79, **23**, 265
Gutteridge, C.S., **25**, 49

Halawy, S.A., **27**, 109 , **28**, 219
Hall, K.,**21** , 195
Hallen, R.T., **12**, 11
Hamann, U., **29**, 57
Hancox, R.N., **19**, 333
Hardell, H.-L., **27**, 73
Hardt, R., **13**, 191, **15**, 159
Hartgers, W.A., **20**, 141
Hasegawa, K, **23**, 217
Hass, W., **15**, 97
Hatim, Z., **17**, 67
Hauge, R.H., **14**, 99, **14**, 115
Hauk, A., **28**, 1
Hausler, K.G., **13**, 287
Haveresch-Kock, M., **25**, 37
He, Q., 21, 327
Hedges, J.I., **11**, 437
Heemann, V., **15**, 97
Heidbrink, J., **30**, 91
Heinicke, J., **28**, 81, **28**, 93
Helleur, R., **23**, 153
Helleur, R.J., **11**, 297, **15**, 85, **19**, 105
Helyer, R.J., **25**, 265
Hempfling, R., **13**, 319, **17**, 275
Hendricker, A.D., **30**, 1
Hendricks, L.J., **18**, 189
Hermosin, B.. **20**, 239
Hessels, J.K C., **11**, 437
Hessley, R.K., **24**, 147
Hesso, A., **18**, 143
Hetherington, C., **28**, 29
Hida, M., **17**, 83, **17**, 181, **17**, 371, **22**, 179
Hiltz, J.A. **22**, 113
Hindmarch, J.M., **11**, 527
Hinz, B., **30**, 35
Hirano, J., **12**, 293, **16**, 159
Hirata, F., **24**, 291
Hirata, T., **23**, 175, **23**, 245
Hoffman, W.P., **15**, 275
Hoffmockel, M., **30**, 35
Holloway, P J, **11**, 287, **15**, 289
Holtzclaw, J.R., **14**, 7
Hopf, H., **29**, 57
Horn, R., **17**, 275
Horne, P.A., **25**, 325
Horsfield, B., **20**, 107, **20**, 125
Hrušák, J., **16**, 173
Huang, F., **22**, 139
Hudgins, R.R., **13**, 103, **17**, 47
Hussein, G.A.M., **29**, 89
Hutchinson, E.J., **30**, 91
Hutzinger, O., **16**, 153, **28**, 1

Ibarra, J.V., **20**, 171
Ikan, R., **14**, 49, **14**, 73
Ikuta, N., **18**, 261
Impallomeni, G., **16**, 239
Indictor, N., **15**, 393
Inoue, H., **15**, 217, **20**, 263
Inoue, T., **18**, 59
Inyushkin, S.V.,**21** , 79
Irzl, G.H., **11**, 277, **13**, 305
Ishiwatari, M., **17**, 217, **18**, 207, **18**, 357, **24**, 273
Ishiwatari, R., **11**,
Ismail, H.M.,**21** , 315
Isoda, Y., **12**, 293, **16**, 159
Ivanov, P.E.,**21** , 79

Jain, R.K, 465
Jakab, E., **11**, 71, **11**, 83, **23**, 229, **25**, 185
Jakoubková, M., **26**, 21
Jaradat, Q.M., **17**, 169
Jelink, T., **24**, 191
Jensen, J.P.T., **11**, 287
Jiang, Z., **26**, 145
Jiao, J., **18**, 175
Jin, X., **26**, 145
Johns, R.B., **18**, 41, **20**, 151, **20**, 161
Johnson, K.D., **30**, 125
Jones, Jr, M., **12**, 223
Julien, L.,**21** , 119
Julien, S., **19**, 81, **27**, 25

Kajioka, R., **22**, 29
Kalechitz, I.V., **16**, 57
Kaliaguine, S., **14**, 281
Kamal El-Dean, A.M., **22**, 107
Kaminsky, W., **16**, 27, **19**, 311, **25**, 285, **25**, 293
Kanazuka, T., **14**, 331, **16**, 229
Karabelas, A.J., **29**, 73
Karachinsky, S.V., **25**, 311
Kaur, B., **11**, 465
Kell, D.B., **26**, 93
Kelly. J., **19**, 105, **23**, 153
Kerkenaar, A., **14**, 309, **15**, 55
Kettrup, A., **13**, 277, **14**, 25, **16**, 205, **16**, 213
Khabasheslcu, V.N., **13**, 135
Kiji, J., **28**, 205
Kim, M.G., **15**, 217, **16**, 49, **20**, 263
Kimura, T., **12**, 115
Kinoshita, C.M., **29**, 169
Kishore, K., **29**, 207
Kistemaker, P.G., **20**, 47
Kister, J., **16**, 255
Kitamura, M., **17**, 143
Kleen, M., **19**, 139
Kleiner, V.I., **17**, 291, **26**, 185
Kloster, G., **17**, 357
Klouda, G.A., **18**, 189
Klouda, G., **14**, 83
Klusmeier, W., **13**, 277, **14**, 25, **16**, 205, **16**, 213
Kopinke, F.-D., **13**, 259, **27**, 45, **28**, 271

Korobkov, V.Yu., **16**, 57
Kortelainen, P., **15**, 297
Korth, J., **14**, 191
Koskinen, S.O.A., **28**, 245
Kousidis, N.,**21** , 293
Koyama, T., **12**, 97
Koza, G., **22**, 197
Kozhabekov, S.S., **23**, 229
Köll, P., **17**, 319, **19**, 119
Kremer, J.H, **12**, 83, **13**, 77
Krentsel, B.A., **17**, 291, **26**, 185
Krouse, H.R., **12**, 19, **14**, 3
Kubler, B., **29**, 1
Kumar, S., **18**, 91
Kummer, A.B., **16**, 27
Kunen, S.M., **18**, 189
Kunzru, D., **26**, 131, **28**, 255
Kuroda, K.-I., **18**, 59, **30**, 173
Kühn, P., **16**, 205, **16**, 213

La Vos, G.F., **18**, 245, **20**, 73
Lacy, G.D., **14**, 17
Lakab, E., **11**, 245
Lake, M.A., **13**, 199
Lamb, G.D., **15**, 261, **19**, 333
Lancaster, C.J., **20**, 87
Landais, P., **16**, 103, **26**, 115, **29**, 137
Lanterna, G., **24**, 227
Lao, Y., **14**, 191
Lapolla, A., **24**, 87
Lappas, A.A.,**21** , 293
Lappi, M., **16**, 355
Largeau, C., **15**, 29, **27**, 155, **28**, 183
Larter,S.R., **20**, 25
Lattimer, R.P.,**21** , vii, **26**, 65
Lattimer, R.P., **16**, 1, **14**, 219, **17**, 237
Laurent, F., **24**, 39
LaVos, G.F., **15**, 55
Leboda, R., **13**, 89, **14**, 203
Lédé, J., **24**, 179, **28**, 107
Lederer, K., **11**, 277, **13**, 305, **16**, 221
Lee, J.-C., **17**, 189
Lee, Y.-K., **16**, 49
Lehrle, R., **26**, 1
Lehrle,R.S., **11**, 55, **15**, 1, **15**, 261, **19**, 301, **19**, 319, **19**, 333, **25**, 11
Leinweber, P., **25**, 123
Lenoir, D., **16**, 153
Levy, E.J., **12**, 75
Lewis, R.V., **17**, 169
Li, S., **22**, 139
Li, M., **18**, 41, **20**, 161
Liebman, S.A., **12**, 83, **16**, 191
Lightfoot, N.F., **28**, 39
Lillack, H., **28**, 121
Lindblad, G. 209
Linna, V., **15**, 297
Linnartz, T.C.T., **19**, 279
Liu, H., **18**, 79
Liu Haicai, **15**, 383
Liu Huwei., **14**, 163
Liu Zhiyong, **13**, 183
Liwen, J.,**21** , 111
Ljunggren, L., **17**, 251
Lodyga, A., **14**, 203
Lomax, J.A., **19**, 65
Lou Qiangkun, **13**, 183, **15**, 383
Lu, F., **26**, 145
Luda di Cortemiglia, M.P., **11**, 511
Luijk, R., **20**, 303
Luijkx, G.C.A., **28**, 245
Lukas, C., **11**, 499
Luo, A., **21**, 327
Luo, Y., **26**, 145
Lyle, S.J., **14**, 323

Ma, P., **18**, 175
MacCallum, J R., **11**, 163
Mackey, M., **19**, 105
Magee, J.T., **11**, 527
Magne, P., **12**, 301, **21**, 265, **22**, 39, **22**, 47
Makino, Y., **14**, 331, **16**, 229
Malacarne, P., **12**, 243
Malcolm, E.A., **25**, 407
Maltsev, A.K., **13**, 135
Marcilla, A., **21**, 249, **23**, 99, **27**, 221, **27**, 245, **28**, 13, **30**, 101
Mardanov, R.G., **17**, 291, **23**, 33, **26**, 185
Margrave, J.L., **14**, 99, **14**, 115
Marquaire, P.M., **16**, 345
Martin, F., **25**, 137, **28**, 71
Martinez-Castro, I., **12**, 31
Masuku, C.P., **23**, 195
Maswadeh, W., **28**, 55
Matheson, M.J., **29**, 129
Matsubara, H., **11**, 181
Maume, D., **14**, 171
Maury, F., **17**, 67
Mazerolles, P., **22**, 95
Mazzeo, R., **20**, 253, **24**, 227
McClelland, D.B., **22**, 73
McClennen, W.H., **21**, 221
McGinnis, G.D., **18**, 341
Meier, D., **11**, 403, **14**, 135, **22**, 239, **25**, 335
Mellon, F.A., **21**, 239
Mercadier, J., **24**, 179, **28**, 107
Metzger, J.O., **17**, 319, **19**, 119
Metzger, P., **27**, 155, **28**, 183
Meuzelaar, H.L.C., **13**, 77, **21**, 221, **28**, 55
Michels, R., **16**, 103
Milić, B.Lj., **21**, 233, **28**, 157, **29**, 103
Millon, E., **29**, 1
Milnes, G. J., **11**, 499
Minami, Y., **22**, 179
Mirmiran, S., **22**, 205
Mitsui, T., **17**, 83, **17**, 181, **17**, 371, **22**, 179
Miyata, K., **12**, 115
Mochida, I, **21**, 95
Mohamed, M.A., **27**, 109, **27**, 275, **30**, 59
Mok, W.S.-L., **26**, 159
Molera, M.J., **16**, 75

Moliner, R., **20**, 171
Montanari, L., **29**, 15
Montaudo, G., **12**, 3, **13**, 1, **13**, 161, **16**, 239, **20**, 57, **20**, 65, **23**, 15, **29**, 207
Montheard, J.P., **13**, 171
Monthioux, M., **16**, 103
Morancho, R., **13**, 141, **17**, 67, **22**, 95 **24**, 51, **26**, 27
Mordi, R.C., **29**, 45
Morelli, J.J., **18**, 1
Morgan, S.L., **18**, 97, **19**, 237, **24**, 107
Morishima, Y., **13**, 161
Morjan, J., **18**, 71
Morris. R.M., **27**, 97, **28**, 45
Mose, D.G., **22**, 73
Moulijn, J.A., **15**, 319, **15**, 333, **20**, 321
Muenster, H., **17**, 237
Mulder, M.M., **19**, 175, **25**, 149, **25**, 255
Muller, B.-H., **25**, 273
Muller, J.-F., **16**, 255, **16**, 269, **29**, 1
Muller, R., **15**, 29
Mundy, S.A.J., **25**, 317
Munson, T.O., **11**, 15
Murugaveri, B., **30**, 1
Mushrush, G.W., **14**, 17, **22**, 73
Muto, Y., **23**, 217

Nagataki, Y., **12**, 115
Nakagawa, H., **12**, 97
Nali, M.. 15
Nashed, N., **17**, 153
Nassoy, P., **16**, 255
Navale, V., **23**, 121, **24**, 301, **29**, 33
Nefedov, O M., **13**, 135
Nelson, D.A., **12**, 11
Ni, J., **21**, 327
Niemann, G.J., **19**, 213
Nip, M., **11**, 125, **11**, 287, **15**, 29
Nishio, E., **18**, 261
Niu Fenghui, 383
Noble, M.A., **22**, 29
Noever de Brauw, M.C. ten., **11**, 329
Noguerola, A., **24**, 1

Oberlin, A., **17**, 329
Obst, G., **25**, 293
Ogunsola, O.I., **21**, 103
Ohlani, H., **15**, 167
Ohrbach, K.-H., **13**, 277, **14**, 25, **16**, 205, **16**, 213
Ohsawa, M., **11**, 181
Ohta, H.. **24**, 291
Ohtani, H., **11**, 181, **12**, 115, **25**, 1
Okabayashi, H.. **18**, 261
Okamoto, K., **12**, 115
Okutan, H., **29**, 25
Olano, A.. **12**, 31
Olsvik, O., **25**, 395
Ondruschka, B., **13**, 259, **16**, 87, **18**, 19, **18**, 33, **21**, 79
Ortega-Calvo, J.J.. **20**, 239

Oudemans, T.F.M., **20**, 197, **25**, 63
Oudhuis, A.B.I., **20**, 321
Overend, R.P., **19**, 81, **27**, 97
Önen, A., **17**, 227
Östmark, H., **24**, 163

Paez, M., **12**, 31
Pakdel, H., **14**, 281
Palandri, A., **27**, 119
Pan, W.-P., **13**, 221, **16**, 117, **17**, 261, **24**, 147, **30**, 91
Papa, G., **11**, 539, **15**, 137
Parks, C.D., **18**, 97
Parlsey, K., **21**, 239
Pastorova, I., **25**, 63
Pather, T.S., **28**, 45
Pavlath, A.E., **11**, 341
Peirong, W., **20**, 151
Pellegrini, L., **29**, 15
Pelter, A., **21**, 281, **23**, 135, **24**, 139, **27**, 187
Pérez, J.D., **16**, 165
Peshkova, O.Y., **25**, 311
Phillips, A.M., **11**, 499
Philp, R.P., **11**, 93
Piccaglia, R., **15**, 129
Pidduck, A.J., **11**, A 3
Pignon, M., **28**, 107
Piskorz, J., **12**, 39, 51, **16**, 127, **19**, 41
Plage, B., **15**, 197, **19**, 285
Platé, N.A., **17**, 291, **23**, 33
Pohlmann, K., **30**, 35
Pola, J., **13**, 151, **14**, 179, **14**, 345, **18**, 19, **18**, 71, **24**, 325, **26**, 21, **28**, 175, **30**, 73
Polloni, R., **23**, 165
Ponder, G.R., **22**, 127
Poty, B., **16**, 103
Pouwels, A.D., **11**, 417, **14**, 237, **15**, 71, **17**, 97
Prado, G., **25**, 387, **27**, 119
Premović, P.I., **21**, 233, **29**, 103
Price, D., **11**, 499
Prokai, L., **12**, 265
Puglisi, C., **13**, 161, **29**, 207
Pureveen, J.B.M., **19**, 175, **19**, 213
Pusch, G., **20**, 185

Qian, S.-A., **23**, 87
Qianrong, L., **27**, 187
Quenneson, M.E., **11**, 251

Radlein, D., **19**, 41
Radlein, D.St.A.G., **12**, 39, **12**, 51, **16**, 127
Rahman, M D., **13**, 221
Ranby, B., **15**, 237
Ranjbar, M., **20**, 185, **27**, 87
Rantanen, J., **15**, 297
Reeves III, J.B., **19**, 203, **24**, 243, **25**, 195, **27**, 1
Reid, K.J.G., **25**, 49
Reisinger, K., **17**, 357

Remmler, M., **18**, 19, **29**, 57
Reunanen, M., **17**, 305
Reutter, D J, 83
Reynes, A., **17**, 67, **22**, 95, **24**, 51, **26**, 27
Rice, J.A., **17**, 169
Richard, J.R., **15**, 307
Richards, G.N., **13**, 221, **16**, 117, **17**, 261, **21**, 133, **22**, 127
Riches, J., **26**, 1
Ringel, H.D., **28**, 137
Ripoll, J.-L., **14**, 171
Ritchue, R.G S, 19
Robertson, G.W., **11**, 355
Robertson, H., **28**, 39
Roche, R.S., **12**, 19
Rodriquez, J.J., **18**, 117
Rodriguez, R., **12**, 301
Roma, P., **11**, 511
Rossi, A, 511
Rossini, A., **11**, 263
Rouan, J.P., **15**, 307
Rovira, X., **11**, 227
Roy, C., **14**, 281
Rumphorst, M.P., **28**, 137

Sağlam, M., **22**, 129
Sahota, R.S., **24**, 107
Saito, T., **15**, 227
Saiz-Jimenez, C., **11**, 367, **11**, 437, **15**, 121, **20**,239
Sakai, K., **18**, 59
Sakashita, H., **17**, 217, **18**, 207, **24**, 273
Saleh, F.Y., **17**, 169
Salem, M.A., **27**, 275
Salvador, M.L., **24**, 257, **30**, 145
Samolada, M.C., **18**, 127
Santiuste, J.M., **16**, 75
Sarac, A.S., **17**, 227
Sarver, E.W., **23**, 1
Scanlan, F.P., **16**, 255, **16**, 269
Schädel, S., **30**, 35
Scheijen, M.A., **15**, 97, **19**, 153, **22**, 239
Schenck, P.A., **11**, 125
Schimmel, I., **30**, 35
Schlotzhauer, W.S., **12**, 193, **17**, 25, **22**, 231
Schmidt, O., **21**, 147
Schroeder, M.A., **12**, 83
Schrödter, R., **19**, 131, **27**, 145
Schulten, H.-R., **11**, 465, **12**, 149, **13**, 319, **15**, 3, **15**, 29, **15**, 197, **17**, 275, **19**, 285, **21**, vii, **25**, 97 **25**, 123, **27**, 169
Schulz, W.D., **14**, 83, **18** , 189
Schwochau, K., **22**, 61, **28**, 121
Scott, D.S., **12**, 39, 51, **16**, 127, **19**, 41
Sedlacicova, M., **14**, 179, **14**, 345, **18**, 19
Seehra, M.S., **13**, 209
Sefiani. S., **22**, 95
Sek, D., **11**, 233
Semwal, R.P., **27**, 207
Senesi, N., **15**, 121
Senthill, V.P., **21**, 163
Seraglia, R., **23**, 165, **24**, 87
Serio, M.A., **19**, 1
Severini, F., **11**, 263, **12**, 135
Severson, R.F., **17**, 25
Sfyrakis, J., **26**, 37
Shao, D., **30**, 91
Shapi, M.M., **18**, 143
Shedrinsky, A.M., **15**, 393, **20**, 229
Shevelkova, L.V., **16**, 87, **17**, 201, **21**, 79
Shi, L., **18**, 79
Shiau, I.-L., **18**, 341
Shimasaki, C., **23**, 217, **24**, 291
Shirai, T., **15**, 217, **20**, 263
Shrivastava, R.K., **27**, 207
Silveston, P L., **13**, 103, **17**, 47
Simitzis, J., **26**, 37, **30**, 161
Simmleit, N., **15**, 3
Simon, J., **24**, 51, **26**, 27
Simonsick, Jr., W.J., **29**, 129
Singh, P.K., **23**, 63
Sinn, H., **30**, 35
Sinninghe Damsté, J.S., **18**, 353, **27**, 155, **28**, 183
Sisson, P.R., **28**, 29, **28**, 39
Sjöström, J., **17**, 305
Sklorz, M., **28**, 1
Sleeckx, J.J.M., **11**, 287
Smeerdijk, D.G. van., **11**, 377
Smith, C.S., **18**, 97
Smith, D.F., **13**, 63, **16**, 37
Smith, C.G., **15**, 209
Smith, G.G., **15**, 357, **17**, 5, **22**, 1
Smith, P.B., **24**, 23, **24**, 199
Snook, M.E., **22**, 231
Snyder A.P., **12**, 83, **13**, 77, **13**, 243, **16**, 191, **17**,127, **24**, 23, **24**, 199
Sojková, I., **16**, 173
Solomon, P.R., **19**, 1
Sorescu, D.,**18**, 71
Sorge, C., **27**, 169
Soyer, N., **16**, 183
Sprenkels, J.C M., **11**, 287, **15**, 29
Srnith. G.G., **14**, 223
Stalick, W.M., **14**, 17
Stanford, J.L., **13**, 287
Statheropoulos, M., **20**, 57, **20**, 65, **23**, 15
Stauffer, M., **28**, 167
Steenvoorden, R.J.J., **20**, 47
Stepto, R.F.T., **13**, 287
Stevanovic J.T., **21**, 147
Stevenson, D.N., **30**, 47
Stevenson, T.T., **22**, 127
Stoev, G., **16**, 335
Stoicos. T., **18**, 127
Stone, R.E., **20**, 229
Stout, S.A., **18**, 277, **21**, 195
Subba Rao, M., **22**, 187
Sujatha Devi, P., **22**, 187
Susu, A.A., **14**, 37
Szabo, P., **11**, 71, 83, **26**, 159
Székely, T., **19**, 301, **23**, 229, **11**, 71, **11**,

83, **11**, 125, **13**, 135, **15**, 175

Takahashi, R., **12**, 257
Takashima, N., **23**, 217
Takatsu, M., **26**, 53
Tanaka, K., **17**, 143
Tanaka, M., **15**, 167
Tang, Y.C., **28**, 167
Tas, A.C., **11**, 329, **14**, 309, **15**, 55, **18**, 245, **20**, 73
Tatsumi, T., **17**, 217, **18**, 207, **24**, 273
Taylor, D.T., **25**, 325, **29**, 111
Tegelaar, E.W., **15**, 29, **15**, 289
Teien, G., **27**, 199
Ten Noever de Brauw, M C., **11**, 329
Terrón, M.C., **27**, 57
Theobald, J., **29**, 1
Thoma, H., **16**, 153
Till, F., **11**, 71, **11**, 83, **23**, 229, **25**, 185
Tiwari, P.K., **19**, 81
Tkaczyk, M., **16**, 173
Tláskal, J., **28**, 175
Tom, A., **11**, 417
Tominaga, H., **18**, 207, **24**, 273
Tominaga, H.-O., **17**, 217
Torell, J.M., **14**, 223, **17**, 5
Toth, T., **19**, 251
Tracz, E., **13**, 89
Traldi, P., **23**, 165, **24**, 87
Traverse, J.P., **21**, 305
Tripathi, A., **28**, 55
Tripathi, D.N., **27**, 207
Tromp, P.J.J., **15**, 319, **20**, 321
Trouvé, G., **27**, 281
Tschiersky, H., **17**, 91
Tsuge, S., **11**, 181, **12**, 97, **12**, 115, **15**, 167, **25**, 1
Tsukahara, Y., **25**, 1
Tsukurimichi, E., **12**, 257, **23**, 217, **24**, 291
Turner, D., **25**, 11
Tutaş, M., **22**, 129

Ueda, S., **25**, 1
Uemichi, Y., **14**, 331, **16**, 229
Ulsaker, G.A., **27**, 199
Urbanová, M., **24**, 325, **26**, 21, **28**, 175
Uzluk, B., **29**, 25
Uzunov, D., **16**, 335

Vaidyanathaswamy, R., **27**, 207
Valade, L., **24**, 39
Valcarce, R., **24**, 197
Valcarce, R.V., **14**, 223, **15**, 357, **17**, 5, **22**, 1
Valenzuela-Calahorro, C., **12**, 61
Vallee, Y., **14**, 171
Van Aarssen, B.G.K., **20**, 125
van Bekkum, H., **28**, 245
Van Dam, J., **23**, 43
Van der Greef, J., **11**, 329, **14**, 309, **15**, 55, **18**, 245, **20**, 73
Van der Peyl, G.J.Q., **19**, 279
Van der Heijden, E., **19**, 213
van der Horst, W., **28**, 245
van der Hage, E.R.E., **25**, 149
Van Doorn, J., **15**, 333
Van Loon, W.M.G., **20**, 275
van Rantwijk, F., **28**, 245
Van Rossum, C A.J., **19**, 279
Van Smeerdijk, D.G., **11**, 377
Vantelon, J.-P., **21**, 119
Várhegyi, G., **11**, 71, 83, **26**, 159
Vasalos, I.A., **18**, 27
Vassallo, A.M., **23**, 73
Vedeneeva, L.M., **17**, 201
Venema, A., **24**, 191
Verdejo, T., **28**, 71
Verdú, E., **21**, 249, **27**, 245, **28**, 13
Verma, G.R., **18**, 91
Vermande, P., **15**, 249
Veron, J., **15**, 249
Vijayakumar, C.T., **11**, 277, **13**, 305, **16**, 221
Villermaux, J., **24**, 179 , **28**, 107
Vinante, C., **13**, 141
Vitalini, D., **13**, 161
Vítek, J., **28**, 175
Vogler, P., **13**, 277, **14**, 25
Vogt, D.J., **27**, 1
Vogt, K.A., **27**, 1
Volkova, V.V., **16**, 87, **21**, 79, **23**, 265
Volnina, E.A., **14**, 345
Voorhees, K.J., **14**, 7, **14**, 83, **18**, 189, **21**, 1, **23**, 1, **24**, 1, **24**, 211, **30**, 1, **30**, 47
Vorwerk, D., **28**, 93, **29**, 57

Waart, J de., **11**, 329
Wakisaka, Y., **12**, 257
Wampler, T.P., **12**, 75, **15**, 187, **15**, 393, **16**, 291, **29**, 129

Wang, L., **13**, 9
Wang, X., **22**, 139
Wang, Y., **29**, 169
Ward, A.C., **28**, 29, **28**, 39
Ward, R.S., **21**, 281, **23**, 135, **24**, 139, **27**, 187
Watanabe, C., **25**, 1
Watt, B.E., **19**, 237
Weber, H., **13**, 277, **14**, 25
Weber, J.V., **29**, 1
Weeding, T.L., **20**, 47
Wenning, H.P., **25**, 301
Wesl, R., **15**, 175
Westall, W A., **11**, 3
Whang, K.-J., **16**, 49
Wheals, B.B., **11**, 195
Wheeler, J., **28**, 39
Whelan, J., **19**, 1
White, R.L., **18**, 269, **18**, 325
Wiles, D.M., **18**, 163
Williams, P.T., **25**, 325, **29**, 111, **30**, 17

Wilson, R.L., **22**, 231
Winans, R.E., **20**, 1
Windig, W., **13**, 77, 243, **16**, 283
Wright, M.M., **11**, 195
Wyszynski, M., **26**, 1

Yagawa, K., **20**, 263
Yaghoubi, R., **14**, 17
Yakovlev, V.A., **23**, 33
Yamabe, T., **17**, 143
Yamaguchi, S., **12**, 293, **16**, 159
Yamamoto, T., **26**, 53
Yamashita, S., **17**, 143
Yatsunami, S., **21**, 95
Ye, M., **18**, 79
Yoshimura, T., **12**, 257, **23**, 217, **24**, 291
Yost, R.A., **16**, 191
Yranzo, G.I., **16**, 165
Yu, Z.Z., **19**, 1
Yüksel, M., **22**, 129

Zabaniotou, A.A., **21**, 293, **29**, 73
Zadražil, F., **15**, 129
Zaikin, V.G., **17**, 291, **23**, 33, **26**, 185
Zarrabi, K., **21**, 1
Zeelenherg, M., **19**, 279
Zeldin, M., **28**, 175
Zelei, B., **11**, 233
Zhang Bingchang, **15**, 383
Zhang, H., **18**, 175
Zhang, W., **30**, 1
Zhao, G.-X., **23**, 87
Zhao, J.S., **24**, 39
Zheng, G, **21**, 133
Zhou, J., **29**, 169
Zhu, P., **18**, 79
Zhubanov, B.A., **23**, 229
Ziegler, J.-M., **16**, 269
Ziegler, U., **16**, 87, **18**, 33, **21**, 79
Zima, J., **21**, 207, **24**, 75
Zimmermann, G., **13**, 259, **16**, 87, **17**, 201, **18**, 19, **18**, 33, **21**, 79, **23**, 265, **27**, 45, **29**, 57, **28**,93, **28**, 271
Zou Renjun, **13**, 183, **15**, 383
Zychlinski, W., **17**, 201

Cumulative Subject Index Volumes 11-30

ABS (polymer)
Mechanism of action and pyrolysis of brominated fire retardants in acrylonitrile-butadiene-styrene polymers, **11**, 511
Accelerator mass spectrometry
Analysis of insoluble carbonaceous materials from airborne particles collected in pristine regions of Colorado, **18**, 189
Acenaphthaquinonemono (4-methylquinolinyl)-hydrazone
Spectral and thermal studies on nickel(II) complexes of acenaphthaquinonemono-(4-methylquinolinyl)hydrazone, **23**, 63
Acetyl chloride, trichloro-
Vacuum pyrolysis of CCl_3COCl: matrix-IR and mass spectrometric studies of the intermediates, **13**, 135
Acetylacetonates
A thermoanalytic study of metal acetylacetonates, **21**, 315
Acetylation
Characterization of lignin and carbohydrates dissolved in groundwood pulping by pyrolysis gas chromatography/mass spectrometry, **17**, 305
Acetylene
Production of olefins from flash pyrolysis of cellulose-containing material, **17**, 47
N-Acetylglucosamine
A pyrolysis-gas chromatographic/mass spectrometric method for measuring the DNA content of cultured mammalian cells, **24**, 107
Acrylamide
Investigation of pyrolysis products of polyacrylamide by pyrolysis-gas chromatography, **22**, 129
Acrylate isomers
Acrylic compound characterization by oxidative pyrolysis, atmospheric pressure chemical ionization-tandem mass spectrometry, **17**, 27
Acrylic copolymers
Quantitative determination of acrylic copolymers by pyrolysis/capillary gas chromatography/mass spectrometry, **21**, 163
Acrylonitrile copolymer
Kinetics of the -C≡N bond transformation into the conjugated C=N- bond in acrylonitrile copolymer using in situ Fourier transform-infrared spectroscopy, **23**, 87
Activated carbon
Degradation of polypropylene to aromatic hydrocarbons over Pt- and Fe-containing activated carbon catalysts, **16**, 229
Activation energy distribution
A kinetic study on chemical activation of holm oak wood, **18**, 117
Adhesives
Pyrolysis-mass spectrometry studies of adhesives, **11**, 213
Adsorbents
Microscopic investigations of the surface of carbon-silica adsorbents with consideration of heterogeneity of carbon layer studied by transmission electron microscopy, and its correlation with adsorption data, **14**, 203
Advanced glycation products (AGE)
Pyrolysis gas chromatography/mass spectrometry in the characterization of glycated albumin, **24**, 87
Agar
Initial application of desorption chemical ionization-pyrolysis-tandem mass spectrometry to structural analysis of carbohydrates, **15**, 85
Agaricales
Characterization of *Agaricales* spores by pyrolysis-capillary gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **15**, 137
Agave americana
Scope and limitations of several pyrolysis methods in the structural elucidation of a macromolecular plant constituent in the leaf cuticle of *Agave americana* L., **15**, 29
Agriculture
Analytical pyrolysis of humic substances and soils: geochemical, agricultural and ecological consequences, **25**, 97
Agricultural soils
Relevance of humus composition to the physical/mechanical stability of agricultural soils: a study by direct

pyrolysis-mass spectrometry, **17**, 275
Air atmosphere tube
A comparison of products from an air atmosphere tube furnace with vacuum Curie-point pyrolyser: implications for biodetection, **24**, 211
Airborne particles
Analysis of insoluble carbonaceous materials from airborne particles collected in pristine regions of Colorado, **18**, 189
Albumin, bovine serum
Curie-point pyrolysis atmospheric pressure chemical ionization mass spectrometry as a probe on the effect of sodium chloride on biopolymers, **13**, 77
Influence of pyrolytic techniques on mass spectra of biopolymers with chemical ionization at atmospheric pressure, **13**, 243
Alcohols
Characterization of the aliphatic nature of kerogens isolated from marine sediments by vacuum pyrolysis, **11**, 109
Alcohols, alkylfuryl
Thermolysis of alkylfuryl alcohols, **12**, 11
Algae
Characterization of algae by pyrolysis-direct chemical ionization (Tandem) mass spectrometry, **18**, 245
Aliphatic amines
Curie-point pyrolysis-gas chromatography of aliphatic amines in the presence of metal powder and inorganic salt, **17**, 181
Alkaline pulping
Pyrolysis-gas chromatography/mass spectrometry of wheat straw fractions obtained by alkaline treatments used in pulping processes, **27**, 57
Alkaloidal narcotics
Determination of alkaloidal narcotics by pyrolysis-gas chromatography, **17**, 83
Alkanes
Characterization of the aliphatic nature of kerogens isolated from marine sediments by vacuum pyrolysis, **11**, 109
1-Alkenes
Direct infrared spectroscopic evidence of alkyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, **21**, 79
Alkenes
Characterization of the aliphatic nature of kerogens isolated from marine sediments by vacuum pyrolysis, **11**, 109
Alkenes, terminal
Mineral-catalysed transformations of terminal alkenes during pyrolysis, **14**, 191
Alkoxy ethyl borates
Pyrolysis of alkoxy ethyl borates, **22**, 197
Alkyd resins
A pyrolysis-derivatisation-gas chromatography technique for the structural elucidation of some synthetic polymers, **16**, 323
Structure determination of alkyd resins by simultaneous pyrolysis methylation, **18**, 233
Alkylation
Structure determination of alkyd resins by simultaneous pyrolysis methylation, **18**, 233
Alkylbenzenes
Analysis of soot from the combustion of alkylbenzenes, **26**, 53
Alkylene-aromatic polymers
Electronic structures of models for alkylene-aromatic polymers and their pyrolysis products, **17**, 143
Alkynes, C_5-C_8
Unimolecular thermal reactions of C_5 to C_8 alkynes. Low temperature matrix IR spectroscopic and mass spectrometric studies, **16**, 87
Almond shells
Gas production by almond shell pyrolysis at high temperature, **28**, 13
Kinetic study of the flash pyrolysis of almond shells in a fluidized bed reactor at high temperatures, **27**, 245
Thermogravimetric kinetic study of the pyrolysis of almond shells and almond shells impregnated with $CoCl_2$, **21**, 249
Amber
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393
Application of pyrolysis-gas chromatography and pyrolysis-gas chromatography/mass spectrometry to the unmasking of amber forgeries, **25**, 77
Amino acids
Amino acid sequence information in proteins and complex proteinaceous material revealed by pyrolysis-capillary gas chromatography- low and high

resolution mass spectrometry, **11**, 313
Quantitative analysis of the pyrolysis-mass spectra of complex mixtures using artificial neural networks: application to amino acids in glycogen, **26**, 93
Amino resins
Determination of reactive comonomers and/or amino resins in acrylic copolymers used in textile industry, by pyrolysis-gas chromatography-mass spectrometry, **11**, 227
Aminobutanoic acids
Pyrolysis-evolved gas-Fourier transform-infrared spectroscopy analysis of aminobutanoic acid isomers, **29**, 103
Ammonium bisulfate
Determination of sulfates in urban air by pyrolysis-gas chromatography with flame photometric detection, **20**, 263
Ammonium bromide
Dilatometry of wood. Part II. Longitudinal dilatometry of wood treated with sodium borate, ammonium bromide, and sodium chloride, **23**, 245
Ammonium sulfate
Determination of sulfates in urban air by pyrolysis-gas chromatography with name photometric detection, **20**, 263
x-Amino acids
Pyrolysis- gas chromatography/mass spectrometry of amino acids, **24**, 123
Amorphous thin layers
Synthesis and pyrolysis of organometallic precursors of Si-C-Ge alloy amorphous thin films, **22**, 95
Amylose
Pyrolysis-direct chemical ionization mass spectrometry of some biopolymers in the positive and negative ionization mode, **15**, 55
Analysis
Analysis and toxicity testing of combustion gases. I. A new sampling unit for collection of combustion products, **28**, 1
Analysis of insoluble carbonaceous materials from airborne particles collected in pristine regions of Colorado, **18**, 189
Characterization of chemical and mechanical pulps by pyrolysis-gas chromatography/mass spectrometry, **19**, 139
Compositional analysis of epoxy matrices of carbon fibre composites by pyrolysis gas chromatography/mass spectrometry, **24**, 75
Polycyclic aromatic hydrocarbons in polystyrene derived pyrolysis oil, **25**, 325
Polycyclic aromatic hydrocarbons in waste derived pyrolitic oils, **30**, 17
The molecular weight range of pyrolytic oils derived from tyre waste, **29**, 111
The use of pyrolysis-gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, **21**, 207
Analytical pyrolysis
Studies on the composition and formation of soil organic matter in terrestrial soils by wet chemical methods and pyrolysis-field ionization mass spectrometry, **27**, 169
Ancient painting media
The potential of pyrolysis-gas chromatography/mass spectrometry in the recognition of ancient painting media, **24**, 227
Anhydride-hardened epoxy resins
Fluid bed pyrolysis of anhydride-hardened epoxy resins and polyether-polyurethane by the Hamburg process, **25**, 293
Anhydro-oligosaccharides
Evidence for oligomers in pyrolysates of microcrystalline cellulose, **15**, 71
Characterisation of oligomers and sugar ring-cleavage products in the pyrolysate of cellulose, **19**, 65
Anhydro sugars
Characterization of the saccharide composition of heteropolysaccharides by pyrolysis-capillary gas chromatography-mass spectrometry, **11**, 297
Initial application of desorption chemical ionization-pyrolysis-tandem mass spectrometry to structural analysis of carbohydrates, **15**, 85
Preparative isolation of oligomers with a terminal anhydrosugar unit by thermal degradation of chitin and cellulose, **17**, 319
Anthracene
Electronic structures of models for alkylene-aromatic polymers and their pyrolysis products, **17**, 143
Antigen
The use of pyrolysis-mass spectrometry to detect the fimbrial adhesive antigen F41 from *Escerichia coli* HB101 (pSLM204),

22, 19
Antimony oxide
Pyrolysis studies of name retarded plastic systems, **11**, 499
Aquatic humic acid
Analytical pyrolysis and environmental research, **15**, 3
Archaebacteria
Comparative study of low and high temperature hydrous pyrolysis products of monoglycerol diether lipid from archaebacteria, **29**, 33
Archaeological food residues
Experimental polysaccharide chars and their "fingerprints" in charred archaeological food residues, **25**, 63
Archaeology
Analytical pyrolysis as a tool for the characterization of organic substances in artistic and archaeological objects, **20**, 253
Archaeology
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393
Molecular archaeology: analysis of charred (food) remains from prehistoric pottery by pyrolysis-gas chromatography/mass spectrometry, **20**, 197
Pyrolysis gas chromatographic studies on Egyptian archaeological specimens: organic patinas on the "Three Princesses" gold vessel, **20**, 229
Arenesulfonate aryl esters
Molecular rearrangements of sulfur compounds. Thermolysis and photolysis of arenesulfonate aryl esters, **29**, 65
Argonne coals
Analysis of coal by thermogravimetry-Fourier transform infrared spectroscopy, **19**, 1
Aromatic hydrocarbons
Thermal cracking of substituted aromatic hydrocarbons. I. Kinetic study of the thermal cracking of i-propylbenzene, **21**, 27
Thermal cracking of substituted aromatic hydrocarbons. II. Kinetic study of the thermal cracking of n-propylbenzene and ethylbenzene, **21**, 51
Aromatics
Degradation of polyethylene to aromatic hydrocarbons over metal-supported activated carbon catalysts, **14**, 331
Degradation of polypropylene to aromatic hydrocarbons over Pt- and Fe-containing activated carbon catalysis, **16**, 229
Art
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393
Artificial neural networks
Quantitative analysis of the pyrolysis-mass spectra of complex mixtures using artificial neural networks: application to amino acids in glycogen, **26**, 93
β-aryl ether substructure
Pyrolysis of arylglycol-β-propylphenyl ether lignin model in the presence of borosilicate glass fibres. I. Pyrolysis reactions of β-ether compounds, **30**, 173
Aryl ethers
Pyrolysis-gas chromatography-mass spectrometry of two trimeric lignin model compounds with alkyl-aryl ether structure, **14**, 135
2-Arylimino-3-arylthiazolidin-4-one
Molecular rearrangements of sulphur compounds. Part 3. Pyrolysis of substituted thiazolidinones, **22**, 107
Asphaltene
A review of biomarkers in kerogens as determined by pyrolysis-gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **11**, 93
Characterisation of kerogens, coals and asphaltenes by quantitative pyrolysis-mass spectrometry, **20**, 25
Pyrolysis and combustion kinetics of crude oils, asphaltenes and resins in relation to thermal recovery processes, **20**, 185
Sulphur isotope composition of H_2S evolved during the non-isothermal pyrolysis of sulphur-containing materials, **12**, 19
Asphaltites
Nonaqueous potentiometry for analyses of nitrogen bases from asphaltite and oil shale pyrolysis products, **17**, 227
Atomic emission
Characterization of used tire vacuum pyrolysis oil: nitrogenous compounds from the naphtha fraction, **22**, 205
Atmospheric dust
Development of a Curie-point thermal desorption system and its application to

the analysis of atmospheric dusts, **15**, 217
Simultaneous determination of natural and styrene-butadiene rubber tire tread particles in atmospheric dusts by pyrolysis-gas chromatography, **16**, 49
Atmospheric pressure chemical ionization
Acrylic compound characterization by oxidative pyrolysis, atmospheric pressure chemical ionization-tandem mass spectrometry, **17**, 127
Thermal desorption-tandem mass spectrometry for the detection and identification of formulated products, **16**, 191
Autocatalysis
Modelling of the decomposition of methane at 1273 K in a plug flow reactor at low conversion, **25**, 395
Autoclave
Pyrolysis of organic matter in cold-seal pressure autoclaves. Experimental approach and applications, **16**, 103
Automated interpretation
The interpretation of pyrolysis mass spectra of polymers using a "-hybrid" software system based on library searching with heuristics, **20**, 65
Automobiles
Degradation products of polymer components. Part 1. Toxicological aspects of automobile fires, **16**, 173
Average zip length
Molecular weight and pyrolysis products distribution of polymers. I. Polystyrene, **24**, 61

Bacteria
Characterization of bacteria by oxidative and non-oxidative pyrolysis-gas chromatography/ion trap mass spectrometry, **24**, 199
Characterization of bacteria by quartz tube pyrolysis-gas chromatography/ion trap mass spectrometry, **24**, 23
Identification of chemical biomarker compounds in bacteria and other biomaterials by pyrolysis-tandem mass spectrometry, **24**, 1
Pyrolysis-tandem mass spectrometry of bacteria, **14**, 7
Rapid characterization of *Salmonella* strains with direct chemical ionization pyrolysis, **11**, 329
Bacillus cerrus
Pyrolysis-tandem mass spectrometry of bacteria, **14**, 7
Bacillus subtilis
Pyrolysis-tandem mass spectrometry of bacteria, **14**, 7
Bacterial fatty acids
Mechanistic aspects of the pyrolytic methylation and transesterification of bacterial cell wall lipids, **21**, 221
Bacterial glycerides
Direct analysis of bacterial glycerides by Curie-point pyrolysis-mass spectrometry, **23**, 1
Bagasse
Sugar cane bagasse as a feedstock for an industrial fast pyrolysis process under development, **12**, 301
Bakelites
Phenol-formaldehyde resins as a link to the understanding of the isothermal kinetic behavior of geopolymers (kerogens and coals), **19**, 265
Bark
Products from the flash pyrolysis of peat and pine bark, **16**, 355
Barley
Data analysis of pyrolysis-mass spectrometric profiles generated with soft ionization detection: application to barley tissue profiles, **20**, 73
Bed depth
Comparison of effects of bed depth and particle size on volatiles produced by slow pyrolysis of coal, **28**, 45
Beech wood
A three-dimensional model for determination of kinetic data from the pyrolysis of beech wood, **25**, 387
Analysis of beech wood samples, its milled wood lignin and polysaccharide fractions by platinum filament pyrolysis-mass spectrometry, **17**, 97
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis-gas chromatography and Fourier-transform infrared spectroscopy, **21**, 147
Bentonite
Mineral-catalysed transformations of terminal alkenes during pyrolysis, **14**, 191
Benzene

Flash pyrolysis of coal sub-structures. A mechanistic and kinetic evaluation, **25**, 229
Benzoic acid
Flash pyrolysis of coal sub-structures. A mechanistic and kinetic evaluation, **25**, 229
Benzoyl peroxide
Pyrolysis-gas chromatographic study of end groups in poly(methyl methacrylate) radically polymerized in toluene solution with benzoyl peroxide as initiator, **15**, 167
1-Benzoylpyrazole
Flash vacuum pyrolysis of 1-benzoylpyrazole, **16**, 165
Benzyl phenyl sulfide
Preparation of a thiophenol/formaldehyde resin; its structure and the mechanism of its pyrolysis, **28**, 231
Benzylamine
Effect of added inorganic salts to a pyrolysis foil on pyrolysis of benzylamine by Curie- point pyrolysis-gas chromatography, **22**, 179
Bibliography
A selected bibliography of analytical pyrolysis applications 1980-1989, **16**, 291
Applications of pyrolysis in petroleum geochemistry: a bibliography, **13**, 9
Biodegradation
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis-gas chromatography and Fourier-transform infrared spectroscopy, **21**, 147
Biodetection
A comparison of products from an air atmosphere tube furnace with a vacuum Curie-point pyrolyser: implications for biodetection, **24**, 211
Biomarker compounds
Identification of chemical biomarker compounds in bacteria and other biomaterials by pyrolysis-tandem mass spectrometry, **24**, 1
Biomarkers
A review of biomarkers in kerogens as determined by pyrolysis-gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **11**, 93
Differentiation of Victorian brown coal lithotypes as revealed by thermally desorbable biomarkers, **20**, 161
Thermal desorption as an analytical technique in biomarker analysis of immature coals, **18**, 41
Biomass
Characterization by pyrolysis-gas chromatography of wheat straw fermented with white rot fungus *Stropharia rugosoannulata*, **15**, 129
Chemical characterization of recent and buried woods by analytical pyrolysis. Comparison of pyrolysis data with ^{13}C NMR and wet chemical data, **11**, 437
Comparison of flash pyrolysis, differential scanning calorimetry, ^{13}C NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287
Evidence of lignin residues in humic acids isolated from vermicomposts, **15**, 121
Flash pyrolysis for the continuous conversion of reed into hydrocarbons, **13**, 233
Influence of particle size and pyrolysis conditions on yield, density and some textural parameters of chars prepared from holm-oak wood, **12**, 61
Lignin derived oils from the fast pyrolysis of poplar wood, **12**, 51
Molecular-beam mass-spectrometric analysis of lignocellulosic materials. I. Herbaceous biomass, **30**, 125
Polycyclic aromatic hydrocarbons in waste derived pyrolitic oils, **30**, 17
Pretreatment of wood and cellulose for production of sugars by fast pyrolysis, **16**, 127
Product composition and kinetics of flash pyrolysis of *Erica Arborea* (biomass), **29**, 73
Biomass gasification
Tar formation under different biomass gasification conditions, **29**, 169
Biopolymer
A comparative study of three different pyrolysis methods used to characterise a biopolymer isolated from fossil and extant dammar resins, **20**, 125
Analytical pyrolysis and environmental research, **15**, 3
Chemical structure of a soil humic acid as revealed by analytical pyrolysis, **11**, 367
Curie-point pyrolysis atmospheric pressure

chemical ionization mass spectrometry as a probe on the effect of sodium chloride on biopolymers, **13**, 77
Influence of pyrolytic techniques on mass spectra of biopolymers with chemical ionization at atmospheric pressure, **13**, 243
Biopolymers, insoluble, non-hydrolyzable
Scope and limitations of several pyrolysis methods in the structural elucidation of a macromolecular plant constituent in the leaf cuticle of *Agave americana* L., **15**, 29
Biotechnology
Quantitative analysis of the pyrolysis-mass spectra of complex mixtures using artificial neural networks: application to amino acids in glycogen, **26**, 93
Birch
Pyrolysis and combustion of peat and wood as single particles and as a layer, **11**, 149
Bis(5-alkyl-2-furyl)methane
Thermolysis of alkylfuryl alcohols, **12**, 11
Bitumen
Sulphur isotope composition of H_2S evolved during the non-isothermal pyrolysis of sulphur-containing materials, **12**, 19
Bitumens
Factors affecting the yields produced from the two-stage pyrolysis of Egyptian bitumen, **17**, 153
Bituminous coals
The characterisation of two Australian bituminous coals and isolated maceral fractions by sequential pyrolysis-gas-chromatography/mass spectrometry, **20**, 151
Block
Differentiation of block, random and block-random ethylene/vinylcyclohexane copolymers by pyrolysis-gas chromatography/mass spectrometry, **26**, 185
Boletus
Characterization of *Agaricales* spores by pyrolysis-capillary gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **15**, 137
Boron esters
Pyrolysis of alkoxy ethyl borates, **22**, 197
Boron tetrafluoride
Dealkylation and rearrangement of phenacylammonium salts in a gas chromatographic injector, **27**, 199
Borosilicate
Analysis of lignin by pyrolysis-gas chromatography I. Effect of inorganic substances on guaiacol-derivative yield from softwoods and their lignins, **18**, 59
Borosilicate glass fibres
Pyrolysis of arylglycol-β-propylphenyl ether lignin model in the presence of borosilicate glass fibres. I. Pyrolysis reactions of β-ether compounds, **30**, 173
Botryococcus braunii
Mechanisms of flash pyrolysis of ether lipids isolated from the green microalga *Botryococcus braunii* race A, **27**, 155
Scope and limitations of flash pyrolysis-gas chromatography/mass spectrometry as revealed by the thermal behaviour of high molecular-weight lipids derived from the green microalga *Botryococcus braunii* , **28**, 183
Thermal simulations of the evolution of carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, II and III, **17**, 329
Branched poly(phenylene sulfide)
Isothermal fluidized-bed studies on the kinetics and pyro-products of linear and branched poly(*p*-phenylene sulfide) and proposed mechanisms, **27**, 131
Bromide
Dealkylation and rearrangement of phenacylammonium salts in a gas chromatographic injector, **27**, 199
Brominated diphenyl ethers
Thermal formation of polybrominated dibenzofurans from decabromodiphenyl ether in a polybutylene-terephthalatepolymer matrix, **16**, 153
Brown coal
Chemical characterization of Hungarian brown coals by Curie-point pyrolysis-low-energy electron impact mass spectrometry and multivariate analysis and by Curie-point pyrolysis-gas chromatography-photoionization mass spectrometry, **11**, 125
Differentiation of Victorian brown coal lithotypes as revealed by thermally desorbable biomarkers, **20**, 161
Thermal desorption as an analytical technique in biomarker analysis of

immature coals, **18**, 41
Brown-rot fungi
An analytical pyrolysis mass spectrometric study of *Eucryphia cordifolia* wood decayed by white-rot and brown-rot fungi, **19**, 175
Burley tobacco
Degradation kinetics of tobacco — survey by fast thermogravimetry analysis, **25**, 273

1,3-Butadien-1-amine
Flow and flash-vacuum pyrolyses of 2-cyclohexen-1-ol and 2-cyclohexen-1-amine: a rapid access to 1,3-butadien-1-ol and 1,3-butadien-1-amine, **14**, 171
1,3-Butadien-1-ol
Flow and flash-vacuum pyrolyses of 2-cyclohexen-1-ol and 2-cyclohexen-1-amine: a rapid access to 1,3-butadien-1-ol and 1,3-butadien-1-amine, **14**, 171
Butadiene
Production of olefins from flash pyrolysis of cellulose-containing material, **17**, 47
n-Butane
Thermal cracking of *n*-butane and a light hydrocarbon mixture, **14**, 37
Butenoic acid
2-Butenoic acid, a chemical marker for poly-β-hydroxybutyrate identified by pyrolysis-gas chromatography/mass spectrometry in analyses of whole microbial cells, **19**, 237
Butyl methacrylate isomers
Acrylic compound characterization by oxidative pyrolysis, atmospheric pressure chemical ionization-tandem mass spectrometry, **17**, 127
Butyl rubber
Studies on the thermal degradation of butyl rubber, **27**, 207
Butylation
A pyrolysis-derivatisation-gas chromatography technique for the structural elucidation of some synthetic polymers, **16**, 323

^{14}C Analysis
An investigation of the insoluble carbonaceous material in airborne particulates from vehicular traffic, **14**, 83
C_{84}
Pyrolysis of KH carbon residues: a method of further production of fullerenes and specific formation of C_{84}, **29**, 1
-C≡N bond transformation into C=N- bond
Kinetics of the -C≡N bond transformation into the conjugated C=N- bond in acrylonitrile copolymer using in situ Fourier transform-infrared spectroscopy, **23**, 87
$CaCO_3$
A kinetic study of the decarbonation of $CaCO_3$, **27**, 119
Caffeoylquinic acids
Pyrolytic evaluation of low chlorogenic acid tobaccos in the formation of the tobacco smoke co-carcinogen catechol, **22**, 231
Calcium oxalate
The effects of heat and mass transport on the results of thermal decomposition studies. Part 1. The three reactions of calcium oxalate monohydrate ,**11**, 71
Calcium soap
Study of calcium soap pyrolysates derived from Macauba fruit (*Acrocomia sclerocarpa M.*). Derivatization and analysis by GC/MS and CI-MS, **29**, 153
Candida albicans
Pyrolysis-direct chemical ionization mass spectrometry ol the dimorphic fungus *Candida alblcans* and the pleomorphic fungus *Ophiostoma ulmi*, **14**, 309
Canonical variates analysis
The potential of pyrolysis-mass spectrometry for fermentation quality control, **11**, 549
Capillary columns
Development of a Curie-point thermal desorption system and its application to the analysis of atmospheric dusts, **15**, 217
Capillary gas chromatography
Analysis of pyrolysis products on lignans using capillary gas chromatography and ion trap detection, **21**, 281
Captafol
Investigations into the thermal decomposition of selected pesticides, **16**, 205
Captive sample reactor
Flash pyrolysis of Greek lignite, **21**, 293
Product composition and kinetics of flash pyrolysis of *Erica Arborea* (biomass), **29**, 73
Caramel (colour)
Analysis of caramel colours Curie-point

pyrolysis-high-resolution gas chromatography/mass spectrometry and simulation of pyrolysis-mass spectrometry, **15**, 159
Carbohydrates
Carbohydrate pyrolysis. I. A continuous mass spectrometric method for the analysis of the resulting gaseous mixture, **11**, 341
Characterization of lignin and carbohydrates dissolved in groundwood pulping by pyrolysis-gas chromatography/mass spectrometry, **17**, 305
Characterization of the saccharide composition of heteropolysaccharides by pyrolysis- capillary gas chromatography-mass spectrometry, **11**, 297
Curie-point pyrolysis-capillary gas chromatography-high-resolution mass spectrometry of microcrystalline cellulose, **14**, 237
Evidence for oligomers in pyrolysates of microcrystalline cellulose, **15**, 71
Initial application of desorption chemical ionization-pyrolysis-tandem mass spectrometry to structural analysis of carbohydrates, **15**, 85
Micro-analytical investigations on lignin in enzyme-digested tobacco lamina and midrib using pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography/ mass spectrometry, **19**, 153
Thermal degradation of different crystalline forms of lactose, **12**, 31
Carbon, activated
Degradation of polyethylene to aromatic hydrocarbons over metal-supported activated carbon catalysts, **14**, 331
Carbon adsorbents
Pyrolysis of lignin biomass-novolac resin for the production of polymeric carbon adsorbents, **26**, 37
Carbon black
The effect of carbon black filler on the pyrolysis behaviour of vulcanized *cis*-polybutadiene, **13**, 287
The effect of carbon-black filling on the pyrolysis behavior of natural and synthetic rubbers, **29**, 129
Carbon dioxide
Product yield correlations for cellulose flash pyrolysis, **13**, 103
Carbon fibers
Vapor grown carbon fibers from pyrolysis of hydrocarbons: modeling of filament growth and poisoning, **26**, 131
Carbon-fibre composite
Compositional analysis of epoxy matrices of carbon fibre composites by pyrolysis-gas chromatography/mass spectrometry, **24**, 75
Carbon monoxide
Product yield correlations for cellulose flash pyrolysis, **13**, 103
Carbon oxide correlations
Vacuum pyrolysis of cellulose: Fourier transform infrared characterization of solid residues, product distribution and correlations, **19**, 81
Carbonization
Thermal simulations of the evolution of carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, II and III, **17**, 329
Carbon-silica adsorbents
Microscopic investigations of the surface of carbon-silica adsorbents with consideration of heterogeneity of carbon layer studied by transmission electron microscopy, and its correlation with adsorption data, **14**, 203
Carbosieve
Flash pyrolysis of coal sub-structures adsorbed on a carbosieve, **24**, 311
Flash pyrolysis of coal sub-structures. Mechanistic and kinetic evaluation, **25**, 229
Carbosil
Topography and morphology of the carbon deposit obtained by pyrolysis of methylene chloride on a silica gel surface, **13**, 89
Carcinogens
The scope of laser-mass spectrometry and other mass spectrometric techniques for studying engine deposits and exhaust emissions, **26**, 1
CART
Pattern recognition studies of Curie-point pyrolysis-gas chromatographic data from materials important to agriculture, **15**, 357
Cartonnages
Pyrolysis-mass spectrometry of natural gums, resins, and waxes and its use for

detecting such materials in ancient Egyptian mummy cases (cartonnages), **11**, 195
Catagenesis
Thermal simulations of the evolution of carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, II and III, **17**, 329
Catalysis
Experimental approach to the catalyzed cracking reaction of tar from wood pyrolysis, **21**, 265
Thermolysis of low density polyethylene catalysed by zeolites, **29**, 45
Catalyst
Degradation of polyethylene to aromatic hydrocarbons over metal-supported activated carbon catalysts, **14**, 331
Degradation of polypropylene to aromatic hydrocarbons over Pt- and Fe-containing activated carbon catalysts, **16**, 229
Kinetic parameters of the cracking reaction of tar from wood pyrolysis; comparison of dolomite with industrial catalysts, **22**, 47
Polycyclic aromatic hydrocarbons in polystyrene derived pyrolysis oil, **25**, 325
Catalyst lifetime
Method of determining catalyst lifetime in the cracking reaction of tar from wood pyrolysis, **22**, 39
Catalysts, used hydrotreating
Characterization of carbon deposits on used hydrotreating catalysts by Curie-point pyrolysis, **15**, 333
Catechol
Pyrolytic evaluation of low chlorogenic acid tobaccos in the formation of the tobacco smoke co-carcinogen catechol, **22**, 231
Cation-exchange resin
An analytical investigation of the thermal degradation of a cation-exchange resin - Part 1, **16**, 255
An analytical investigation of the thermal degradation of a cation-exchange resin -- Part 2, **16**, 269
Cations
The effect of cations on the thermal decomposition of lignins, **25**, 185
Cell wall development
Cell wall development in maize somatic embryos studied by pyrolysis-mass spectrometry, **25**, 255
Cellobiosan
On the presence of anhydro-oligosaccharides in the sirups from the fast pyrolysis of cellulose, **12**, 39
Cellulase
Micro-analytical investigations on lignin in enzyme-digested tobacco lamina and midrib using pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography/ mass spectrometry, **19**, 153
Cellulose
A microanalytical approach to plant tissue characterization: a comparative study of healthy and fungus-infected carnation by pyrolysis-mass spectrometry, **19**, 213
Analysis of beech wood samples, its milled wood lignin and polysaccharide fractions by platinum filament pyrolysis-mass spectrometry, **17**, 97
Analytical pyrolysis and environmental research, **15**, 3
Characterisation of beech wood and its holocellulose and xylan fractions by pyrolysis-gas chromatography-mass spectrometry, **11**, 417
Characterisation of oligomers and sugar ring-cleavage products in the pyrolysate of cellulose, **19**, 65
Curie-point pyrolysis-capillary gas chromatography-high-resolution mass spectrometry of microcrystalline cellulose, **14**, 237
Evidence for oligomers in pyrolysates of microcrystalline cellulose, **15**, 71
Experimental polysaccharide chars and their "fingerprints" in charred archaeological food residues, **25**, 63
Fast pyrolysis of natural polysaccharides as a potential industrial process, **19**, 41
First chemical events in pyrolysis of wood, **13**, 221
Influence of acid pretreatment (H_2SO_4, HCl, HNO_3) on reaction selectivity in the vacuum pyrolysis of cellulose, **27**, 25
Influence of the heating rate on the temperature profiles and on the conversion rate of powdery cellulose and pine sawdust, **30**, 145
Interpreting isothermal thermogravimetric data of complex reactions: application to cellulose pyrolysis at low temperatures,

15, 347
Kinetics of cellulose pyrolysis in the presence of nitric oxide, **14**, 149
Kinetics of cellulose pyrolysis modelled by three consecutive first-order reactions, **17**, 37
Kinetics of the thermal decomposition of cellulose in sealed vessels at elevated pressures. Effects of the presence of water on the reaction mechanism, **26**, 159
On the presence of anhydro-oligo-saccharides in the sirups from the fast pyrolysis of cellulose, **12**, 39
Preparative isolation of oligomers with a terminal anhydrosugar unit by thermal degradation of chitin and cellulose, **17**, 319
Pretreatment of wood and cellulose for production of sugars by fast pyrolysis, **16**, 127
Product yield correlations for cellulose flash pyrolysis, **13**, 103
Production of olefins from flash pyrolysis of cellulose-containing material, **17**, 47
Pyrolysis kinetics of lignocellulosic materials by multistage isothermal thermogravimetry, **13**, 123
Solid weight loss in the thermal decomposition of cellulose and pine sawdust, **24**, 257
Studies on isolated lignins and lignins in woody materials by pyrolysis-gas chromatography-mass spectrometry and off-line pyrolysis-gas chromatography with flame ionization detection, **11**, 403
Thermal characterization analysis of milkweed floss, **24**, 147
Thermal degradation of chitin and cellulose, **19**, 119
Vacuum pyrolysis of cellulose: Fourier transform infrared characterization of solid residues, product distribution and correlations, **19**, 81
Volatile products of oxidative pyrolysis of wood: influence of metal ions, **17**, 261
Cellulose ammonium phosphate
Studies on the flame-retardant properties of transition metal complexes of cellulose ammonium phosphate,**11**, 465
CH-acid substances
Pyrolysis of coloured low molecular weight Maillard-products, **27**, 145
Chain transfer processes
Polymer degradation modified by blending with polymers chosen on the basis of their phi-factors, **25**, 11
Characterization
Characterization of poly(styrene-dimethyl-siloxane) block copolymer by high-resolution pyrolysis-gas chromatography/mass spectrometry, **18**, 79
Development of multiple cold trap pyrolysis, **28**, 167
Charcoals
Pyrolysis of impregnated carbon adsorbents after exposure to cyanide gases, **24**, 333
Chars
Influence of particle size and pyrolysis conditions on yield, density and some textural parameters of chars prepared from holm-oak wood, **12**, 61
Chemical bonds
Photodegradation and photo-oxidation of synthetic polymers, **15**, 237
Chemical ionization
Pyrolysis tandem mass spectrometry (PyMS/MS) of a segmented polyurethane, **17**, 237
Structural characterization of lignin polymers by temperature-resolved in-source pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography/mass spectrometry, **25**, 149
Chemical marker
2-Butenoic acid, a chemical marker for poly-β-hydroxybutyrate identified by pyrolysis gas chromatography/mass spectrometry in analyses of whole microbial cells, **19**, 237
Chemical mechanism
Influence of linkage position and orientation in pyrolysis of polysaccharides: a study of several glucans, **22**, 217
Chemical ionisation
Evidence for oligomers in pyrolysates of microcrystalline cellulose, **15**, 71
Chemical treatments
The effect of various chemical treatments on the pyrolytic pattern of peat humic acid, **25**, 137
Chemical vapor deposition
Chemical vapor deposition of polycarbo-silane by laser-induced decomposition of

silacyclohexane, **24**, 325
CO_2 laser-induced thermal chemical vapour deposition of polymers, **30**, 73
Chemical vapor phase deposition
Laser-induced decomposition of trimethyl (methoxy)silane, hexamethyldisiloxane and tetramethoxysilane for production of silicon-containing coatings, **18**, 71
Thermoanalytic studies of the pyrolysis of $CpTiCl_2N(SiMe_3)_2$ and its use as a precursor for the chemical vapor deposition of titanium carbonitride, **24**, 39
Chemically treated wood
A kinetic study on chemical activation of holm oak wood, **18**, 117
Chemometrics
Chemometric analysis of pyrolysate compositions: a model for predicting the organic matter type of source rocks using pyrolysis-gas chromatography, **20**, 87
Differentiation of leafy spurge (*Euphorbia esula* L.) accessions based on chemical constitution using Curie-point pyrolysis-mass spectrometry-pattern recognition, **17**, 5
Pattern recognition studies of Curie-point pyrolysis-gas chromatographic data from materials important to agriculture, **15**, 357
Winter wheat cultivar differentiation by Curie point pyrolysis-gas chromatography-pattern recognition of whole seeds: a feasibility study, **22**, 1
Chemotaxometry
Chemical charac' rization of leafy spurge (*Euphorbia esula* L.) by Curie-point pyrolysis-gas chromatography-pattern recognition, **14**, 223
Chitin
Preparative isolation of oligomers with a terminal anhydrosugar unit by thermal degradation of chitin and cellulose, **17**, 319
Thermal degradation of chitin and cellulose, **19**, 119
Chloridazon
Investigations into the thermal decomposition of the pesticides Metoxuron and Chloridazon, **16**, 213
p-Chlorinated polystyrene
Thermal degradation of chlorinated polystyrenes, **28**, 205
Chlorodisilanes
Thermolysis mass spectrometry study of the decomposition of $HSiCl_3$, $MeHSiCl_2$ and chlorodisilanes, **28**, 93
Chlorolignin
Analysis of beech wood samples, its milled wood lignin and polysaccharide fractions by platinum filament pyrolysis-mass spectrometry, **17**, 97
Characterisation of beech wood and its holocellulose and xylan fractions by pyrolysis-gas chromatography-mass spectrometry, **11**, 417
Qualitative analysis of chlorolignins and lignosulphonates in pulp mill effluents entering the river Rhine using pyrolysis-mass spectrometry and pyrolysis-gas chromatography/mass spectrometry, **20**, 275
Chlorophyll a
Pyrolysis of chlorophyll a after preliminary heating at a moderate temperature: implications for the origin of prist-1-ene on kerogen pyrolysis, **18**, 207
Cigarettes
A review of pyrolysis studies to unravel reaction steps in burning tobacco, **11**, 555
Recent advances in studies on the pyro-synthesis of cigarette smoke constituents (Review), **12**, 193
CI-MS
Study of calcium soap pyrolysates derived from Macauba fruit (*Acrocomia sclerocarpa M.*). Derivatization and analysis by GC/MS and CI-M, **29**, 153
Cinnamic acids
Pyrolysis-gas chromatography/mass spectrometry of wheat straw fractions obtained by alkaline treatments used in pulping processes, **27**, 57
Clays
Influence of reservoir rock composition o crude oil pyrolysis and combustion, **27**, 8
CO_2
High speed, two-wavelength radiation thermometry of single micro particles during CO_2 laser heating, **28**, 55
CO_2 diffusion
A kinetic study of the decarbonation of $CaCO_3$, **27**, 119
CO_2 laser
CO_2 laser-induced thermal chemical vapour deposition of polymers, **30**, 73
Coal

A pyrolysis-gas chromatography/mass spectrometry study on coals, **29**, 15
An approach to solid state kinetics, **15**, 373
Analysis of coal by thermogravimetry-Fourier transform infrared spectroscopy, **19**, 1
Analytical Curie-point pyrolysis-gas chromatography as a tool to characterize key parameters relevant to coal reactivity, **15**, 319
Behavior of sulfur during coal pyrolysis, **30**, 91
Characterisation of kerogens, coals and asphaltenes by quantitative pyrolysis-mass spectrometry, **20**, 25
Coal characterization using pyrolysis-Fourier transform infrared spectroscopy, **20**, 171
Comparative study of the isothermal pyrolysis kinetic behaviour of some oil shales and coals, **14**, 49
Comparison of effects of bed depth and particle size on volatiles produced by slow pyrolysis of coal, **28**, 45
Effect of particle size and temperature on evolution rate of volatiles from coal, **27**, 97
Flash pyrolysis of coal, coal maceral, and coal-derived pyrite with on-line characterization of volatile sulfur compounds, **13**, 199
Flash pyrolysis of coal sub-structures adsorbed on a carbosieve, **24**, 311
Fossil fuels and synthetic polymers: isothermal pyrolysis kinetics as indication of structural resemblance, **14**, 73
Matrix isolation-Fourier transform infrared spectroscopy studies of flash pyrolysis of four coal tars, **14**, 99
Matrix isolation-Fourier transform infrared spectroscopy studies of slow pyrolysis processes for four coals, **14**, 115
Phenol-formaldehyde resins as a link to the understanding of the isothermal kinetic behavior of geopolymers (kerogens and coals), **19**, 265
Pyrolysis fast atom bombardment tandem mass spectrometry characterization of coals, **20**, 1
Pyrolysis of organic matter in cold-seal pressure autoclaves. Experimental approach and applications, **16**, 103
Solid state pyrolyses. Part 2. Solid state kinetics studied by pyrolysis-gas chromatography, **19**, 15
Solid state pyrolyses. Part 4. Kinetic evaluation of coal pyrolyses: effects of maturation, **26**, 115
Studies of the yield of sulphur from a coal sample by pyrolysis-gas chromatography, **25**, 243

Coal char
A new apparatus to measure the reaction rates of wood and coal char in a high-pressure environment, **15**, 307

Coal organic matter
Mechanism and kinetics of thermolysis of ethers modelling the oxygen-methylene 'bridge'- bonds in coal organic matter, **16**, 57

Coatings
Compositional analysis of acrylic thermosetting coatings by pyrolysis-gas chromatography, **12**, 293

Cobalt chloride
Thermogravimetric kinetic study of the pyrolysis of almond shells and almond shells impregnated with $CoCl_2$, **21**, 249

Coke
Characterization of carbon deposits on used hydrotreating cataCoal
A pyrolysis-gas chromatography/masslysts by Curie-point pyrolysis, **15**, 333

Coke
Pyrolysis of sewage sludge and use of pyrolysis coke, **28**, 137

Coke formation
Mathematical model for reduction of coke formation during hydrocarbon pyrolysis on a surface coated with carbonate, **17**, 189

Collision-induced dissociation
Characterization of algae by pyrolysis-direct chemical ionization (Tandem) mass spectrometry, **18**, 245
Data analysis of pyrolysis-mass spectrometric profiles generated with soft ionization detection: application to barley tissue profiles, **20**, 73
Initial application of desorption chemical ionization-pyrolysis-tandem mass spectrometry to structural analysis of carbohydrates, **15**, 85

Collision number
Techniques in gas-phase thermolyses. Part 8. The fate of molecules in low-pressure

pyrolysis reactors. A theoretical study, **11**, 25
Combined gas chromatography-mass spectrometry
The thermal stability of aliphatic polyesters and polyester-alkali metal salt complexes, **22**, 139
Combustion
A review of pyrolysis studies to unravel reaction steps in burning tobacco, **11**, 555
Analysis and toxicity testing of combustion gases. I. A new sampling unit for collection of combustion products, **28**, 1
Degradation products of polymer components. Part 1. Toxicological aspects of automobile fires, **16**, 173
Products of non-flaming combustion of poly(vinyl chloride), **12**, 275
Pyrolysis and combustion of peat and wood as single particles and as a layer, **11**, 149
The role of pyrolysis in polymer combustion and flame retardance, **11**, 451
Comonomers
Determination of reactive comonomers and/or amino resins in acrylic copolymers used in textile industry, by pyrolysis-gas chromatography-mass spectrometry, **11** 227
Compaction
Relevance of humus composition to the physical/mechanical stability of agricultural soils: a study by direct pyrolysis-mass spectrometry, **17**, 275
Complex mixtures
Use of principal component regression to characterize a complex oxidation product mixture, **21**, 1
Composites
High temperature pyrolysis of novolac resin biomass composites, **30**, 161
Corrosion
Dehalogenation of pyrolysis products, **30**, 35
Computer
Advances in pyrolysis in combination with chromatographic and computer techniques, **15**, 383
Computer language OPS5
IONIA: An Expert System for the prediction of the thermal decomposition of condensation polymers, **20**, 57
Condensation polymers
IONIA: An Expert System for the prediction of the thermal decomposition of condensation polymers, **20**, 57
The interpretation of pyrolysis mass spectra of polymers using a "hybrid" software system based on library searching with heuristics, **20**, 65
Condensed pyro-products
Investigation of pyrolytically produced condensates of phenol-formaldehyde resins, in relation to their structure and decomposition mechanism, **22**, 153
Confined pyrolysis
Analysis of confined pyrolysis effluents by thermodesorption-multidimensional gas chromatography, **29**, 137
Congruence
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis-gas chromatography and Fourier-transform infrared spectroscopy, **21**, 147
Coniferyl alcohol
Thermolytic decomposition of coniferyl alcohol, **23**, 195
Conservation
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393
Controlled thermal processing
Thermal desorption-tandem mass spectrometry for the detection and identification of formulated products, **16**, 191
Conventional and laser-driven
Thermal reactions of decalin. I. A comparative study of conventional and laser-driven pyrolysis, **18**, 19
Copolymers
Composition and microstructure of butadiene-isoprene copolymers from pyrolysis-gas chromatographic/mass spectrometric data, **23**, 33
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
Differentiation of block, random and block-random ethylene/vinylcyclohexane copolymers by pyrolysis gas chromatography/mass spectrometry, **26**, 185

Library of pyrolysis-gas chromatography data for synthetic polymers, **15**, 209
The effect of mechanical degradation on the pyrolysis of poly(methyl methacrylate) and its copolymers, **21**, 181
Pyrolysis-gas chromatographic/mass spectrometric behaviour of polyvinylcyclohexane and vinylcyclohexane-styrene copolymers, **17**, 291
Thermal decomposition of polymeric silanes, **15**, 175
Thermal degradation aspects of model copolymers based on styrene, maleic anhydride,diethyl maleate and diethyl fumarate, **16**, 221
Thermal degradation mechanisms of amphiphilic acrylic copolymers studied by temperature-resolved pyrolysis-field ionization mass spectrometry, **19**, 285
Co-pyrolysis
Pyrolysis of Seyitömer oil shale and lignite under different processing conditions, **29**, 25
$CpTiCl_2N(SiMe_3)_2$
Thermoanalytic studies of the pyrolysis of $CpTiCl_2N(SiMe_3)_2$ and its use as a precursor for the chemical vapor deposition of titanium carbonitride, **24**, 39
Cracking
Thermolysis of low density polyethylene catalysed by zeolites, **29**, 45
Cracking reaction
Kinetic parameters of the cracking reaction of tar from wood pyrolysis: comparison of dolomite with industrial catalysts, **22**, 47
Method of determining catalyst lifetime in the cracking reaction of tar from wood pyrolysis, **22**, 39
Cross-linking
Effect of cross-linking on the pyrolysis of diphenylalkanes, **25**, 407
Cryochemistry
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, **21**, 79
Cu-Cr compounds
Pyrolysis of impregnated carbon adsorbents after exposure to cyanide gases, **24**, 333
Curie point
Direct analysis of bacterial glycerides by Curie-point pyrolysis-mass spectrometry, **23**, 1
Curie-point Py-GC/MS
Pyrolysis of coloured low molecular weight Maillard-products, **27**, 145
Curie-point pyrolyser
Development of a Curie-point thermal desorption system and its application to the analysis of atmospheric dusts, **15**, 217
Curie-point pyrolysis
Analysis of caramel colours Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry and simulation of pyrolysis-mass spectrometry, **15**, 159
Analytical Curie-point pyrolysis-gas chromatography as a tool to characterize key parameters relevant to coal reactivity, **15**, 319
Characterization of carbon deposits on used hydrotreating catalysts by Curie-point pyrolysis, **15**, 333
Characterisation of kerogens, coals and asphaltenes by quantitative pyrolysis-mass spectrometry, **20**, 25
Chemical characterization of Hungarian brown coals by Curie-point pyrolysis-low-energy electron impact mass spectrometry and multivariate analysis and by Curie-point pyrolysis-gas chromatography-photoionization mass spectrometry, **11**, 125
Chemical characterization of leafy spurge (*Euphorbia esula* L.) by Curie-point pyrolysis-gas chromatography-pattern recognition, **14**, 223
Curie-point pyrolysis and gas chromatography/mass spectrometry of 5,5'-oxydimethylenebis(2-furfural), **17**, 91
Curie-point pyrolysis atmospheric pressure chemical ionization mass spectrometry as a probe on the effect of sodium chloride on biopolymers, **13**, 77
Curie-point pyrolysis-gas chromatography of aliphatic amines in the presence of metal powder and inorganic salt, **17**, 181
Experimental polysaccharide chars and their "fingerprints" in charred archaeological food residues, **25**, 63
Pyrolysis of arylglycol-β-propylphenyl ether lignin model in the presence of

borosilicate glass fibres. I. Pyrolysis reactions of β-ether compounds, **30**, 173
Pyrolysis-gas chromatographic data from materials important to agriculture, **15**, 357
Techniques in gas-phase thermolyses. Part 8. The fate of molecules in low-pressure pyrolysis reactors. A theoretical study, **11**, 25
Temperature-programmed pyrolysis-mass spectrometry (TPP-MS) and pyrolysis-gas chromatography/mass spectrometry (Py-GC/MS) - practical applications to industrial problems, **25**, 317
Curie-point pyrolysis-gas chromatography
Pyrolysis of various furan model compounds, **19**, 131
Curing
Structure determination of alkyd resins by simultaneous pyrolysis methylation, **18**, 233
Cuticle
Comparison of flash pyrolysis, differential scanning calorimetry, ^{13C}-NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287
Scope and limitations of several pyrolysis methods in the structural elucidation of a macromolecular plant constituent in the leaf cuticle of *Agave americana* L., **15**, 29
Cuticular waxes
Characterization of thermolysis products of cuticular wax compounds of green tobacco leaf, **17**, 25
Cutin
Analytical pyrolysis and environmental research, **15**, 3
Some mechanisms of flash pyrolysis of naturally occurring higher plant polyesters, **15**, 289
CVD
Thermoanalytic studies of the pyrolysis of $CpTiCl_2N(SiMe_3)_2$ and its use as a precursor for the chemical vapor deposition of titanium carbonitride, **24**, 39
Cyanide gases
Pyrolysis of impregnated carbon adsorbents after exposure to cyanide gases, **24**, 333
Cyanuric acid
Preparation of cyanuric and isocyanic acids in a fluidized bed reactor, **25**, 311
Cyclisation
Generation of isobenzofuran derivatives by pyrolysis-gas chromatography/mass spectrometry, **24**, 139
Cycloaddition
Generation of isobenzofuran derivatives by pyrolysis-gas chromatography/mass spectrometry, **24**, 139
Cycloalkenes
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, **21**, 79
Cycloolefins
Rearrangement reactions in the thermal formation of aromatics from cycloolefins ^{14}C-labelling studies, **13**, 259
Cyclopenta-1,3-diene, hexachloro-
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone, **11**, 277
Cyclopenta-1,3-diene,1,2,3,4,5-pentachloro-
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone, **11**, 277
Cyclopenta-1,3-diene,1,2,3,4-tetrachloro-
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone, **11**, 277
Cyclotrimethylenetrinitramine
Time-resolved analytical pyrolysis studies of nitramine decomposition with a triple quadrupole mass spectrometer system, **12**, 83

Dammar
A comparative study of three different pyrolysis methods used to characterise a biopolymer isolated from fossil and extant dammar resins, **20**, 125
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393
Dealkylation
Dealkylation and rearrangement of phenacylammonium salts in a gas

chromatographic injector, **27**, 199
Decabromodiphenyl ether
Thermal decomposition of decabromodiphenyl ether, **13**, 277
Thermal formation of polybrominated dibenzofurans from decabromodiphenyl ether in a polybutylene-terephthalate polymer matrix, **16**, 153
Decabromodiphenyl oxide
Pyrolysis studies of flame retarded plastic systems, **11**, 499
Decalin
Cracking of decalin and tetralin in the presence of mixtures of *n*-decane and steam at about 810 °C, **11**, 39
Thermal reactions of decalin. I. A comparative study of conventional and laser-driven pyrolysis, **18**, 19
Thermal reactions of decalin. II. A mass spectrometric study, **18**, 33
Decalyl radicals
Thermal reactions of decalin. I. A comparative study of conventional and laser-driven pyrolysis, **18**, 19
Decane
Cracking of Decalin and tetralin in the presence of mixtures of *n*-decane and stream at about 810 °C, **11**, 39
Decarbonation
A kinetic study of the decarbonation of $CaC0_3$, **27**, 119
Decomposition
Modelling of the decomposition of methane at 1273 K in a plug flow reactor at low conversion, **25**, 395
Non-isothermal dehydration and decomposition ofmanganese(II) malonate dihydrate, **30**, 59
Preparation of a thiophenol/formaldehyde resin: its structure and the mechanism of its pyrolysis, **28**, 231
Decomposition processes
Non-isothermal decomposition of nickel acetate tetrahydrate, **27**, 109
Defects
Characterization of impurities in pulp and paper products using pyrolysis-gas chromatography/mass spectrometry including direct methylation, **27**, 73
Degradation
Degradation of polyethylene to aromatic hydrocarbons over metal-supported activated carbon catalysts, **14**, 331
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
Thermal degradation mechanisms of amphiphilic acrylic copolymers studied by temperature-resolved pyrolysis-field ionization mass spectrometry, **19**, 285
Thermolysis of low density polyethylene catalysed by zeolites, **29**, 45
Thermometric behavior of polyolefins, **15**, 187
Degradation kinetics
Degradation kinetics of tobacco - survey by fast thermogravimetry analysis, **25**, 273
Degradation mechanism
The thermal stability of aliphatic polyesters and polyester-alkali metal salt complexes, **22**, 139
Degradation pathways
IONIA: An Expert System for the prediction of the thermal decomposition of condensation polymers, **20**, 57
Degradation products
Characterization of chemical and mechanical pulps by pyrolysis-gas chromatography/ mass spectrometry, **19**, 139
Dehydration, non-isothermal
Non-isothermal dehydration and decomposition ofmanganese(II) malonate dihydrate, **30**, 59
Demethoxylation
A microanalytical approach to plant tissue characterization: a comparative study of healthy and fungus-infected carnation by pyrolysis-mass spectrometry, **19**, 213
Deoxy sugars
Characterization of the saccharide composition of heteropolysaccharides by pyrolysis-capillary gas chromatography-mass spectrometry, **11**, 297
Depositional patterns
Particle size fraction and downhole depositional trends of a tropical domed peat deposit as determined by pyrolysis GC/FTIR/FID and pyrolysis GC/MS, **18**, 293
Deposits
Characterization of impurities in pulp and paper products using pyrolysis-gas

chromatography/mass spectrometry including direct methylation, **27**, 73
Deposits, carbon
Characterization of carbon deposits on used hydrotreating catalysts by Curie-point pyrolysis, **15**, 333
Derivative thermogravimetry
Thermal degradation characteristics of high impact polystyrene/decabromodiphenylether/antimony oxide studied by derivative thermogravimetry and temperature resolved pyrolysis-mass spectrometry. Formation of polybrominated dibenzofurans, antimony (oxy)bromide and brominated styrene oligomers, **20**, 303
Derivatives
Pyrolysis-GC/MS of podophyllotoxin and related compounds, **27**, 187
Derivatisation
A pyrolysis-derivatisation-gas chromatography technique for the structural elucidation of some synthetic polymers, **16**, 323
Characterization of impurities in pulp and paper products using pyrolysis gas chromatography/mass spectrometry including direct methylation 27, **27**, 73
Mechanistic aspects of the pyrolytic methylation and transesterification of bacterial cell wall lipids, **21**, 221
Structure determination of alkyd resins by simultaneous pyrolysis methylation, **18**, 233
The effect of various chemical treatments on the pyrolytic pattern of peat humic acid, **25**, 137
The scope of pyrolysis methylation reactions, **20**, 15
Desorption chemical ionisation
Analysis of beech wood samples, its milled wood lignin and polysaccharide fractions by platinum filament pyrolysis-mass spectrometry, **17**, 97
Characterisation of oligomers and sugar ring-cleavage products in the pyrolysate of cellulose, **19**, 65
Initial application of desorption chemical ionization-pyrolysis-tandem mass spectrometry to structural analysis of carbohydrates, **15**, 85
Desulphonation
An analytical investigation of the thermal degradation of a cation-exchange resin Part 1, **16**, 255
Dextran
Initial application of desorption chemical ionization-pyrolysis-tandem mass spectrometry to structural analysis of carbohydrates, **15**, 85
Pyrolysis-direct chemical ionization mass spectrometry of some biopolymers in the positive and negative ionization mode, **15**, 55
Dianthramides
A microanalytical approach to plant tissue characterization: a comparative study of healthy and fungus-infected carnation by pyrolysis-mass spectrometry, **19**, 213
Dianthramine
A microanalytical approach to plant tissue characterization: a comparative study of healthy and fungus-infected carnation by pyrolysis-mass spectrometry, **19**, 213
Dianthus caryophyllus
A microanalytical approach to plant tissue characterization: a comparative study of healthy and fungus-infected carnation by pyrolysis-mass spectrometry, **19**, 213
2,6-Diaryl-3,7-dioxabicyclo[3.3.0.]octanes
Analysis of 2,6-diaryl-3,7-dioxabicyclo-[3.3.0.]octanes and dibenzylbutyrolactones by pyrolysis-gas chromatography/mass spectrometry, **23**, 135
Dibenzylbutyrolactones
Analysis of 2,6diaryl-3,7-dioxabicyclo-[3.3.0.]octanes and dibenzylbutyrolactones by pyrolysis-gas chromatography/mass spectrometry, **23**, 135
Dibutyltin oxide
Thermal degradation of dibutyltin oxide, **16**, 183
Dichlorosilylene
Role of the trichlorosilyl radical and dichlorosilylene in gas-phase reactions of trichlorosilane, **28**, 81
Diels-Alder mechanism
Natural rubber pyrolysis: study of temperature- and thickness-dependence indicates dimer formation mechanism, **19**, 301
Diethylacetal
Slow gas-phase oxidation of diethylacetal, **16**, 75
Diethyl fumarate
Thermal degradation aspects of model

copolymers based on styrene, maleic anhydride, diethyl maleate and diethyl fumarate, **16**, 221
Diethyl maleate
Thermal degradation aspects of model copolymers-based on styrene, maleic anhydride, diethyl maleate and diethyl fumarate, **16**, 221
Differential scanning calorimetry
Comparison of flash pyrolysis, differential scanning calorimetry, ^{13}C NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
Kinetics of the thermal decomposition of cellulose in sealed vessels at elevated pressures. Effects of the presence of water on the reaction mechanism, **26**, 159
Non-isothermal decomposition of nickel acetate tetrahydrate, **27**, 109
Differential thermal analysis
A thermoanalytic study of metal acetylacetonates, **21**, 315
Investigations on the formation of potassium tetramolybdate via thermal decomposition of a new oxomolybdenum(VI) oxalato complex, **18**, 91
Non-isothermal decomposition of nickel acetate tetrahydrate, **27**, 109
Diisopropylether
Analysis of soot from the combustion of alkylbenzenes, **26**, 53
2,4-Diketones
Characterisation of subfossil *Sphagnum* leaves, rootlets of Ericaceae and their peat by pyrolysis-high-resolution gas chromatography-mass spectrometry, **11**, 377
Dilatometry
Dilatometry of wood. Part I. Longitudinal dilatometry of wood untreated and treated with ammonium phosphate, **23**, 175
Dilatometry of wood. Part II. Longitudinal dilatometry of wood treated with sodium borate, ammonium bromide, and sodium chloride, **23**, 245
Dimethylphenols
Thermal decomposition of dimethylphenols, **22**, 83
Dioxane
Products of the gas-phase pyrolysis of 1,4-dioxane, **16**, 345
Dioxane
Pyrolysis of alkoxy ethyl borates, **22**, 197
Dioxin
Thermal reaction of pentachlorophenol and its salts, **18**, 341
Dioxolane
Radical-sensitized thermal decomposition of 1,3-dioxolane in the gas phase, **18**, 219
Diphenylalkanes
Effect of cross-linking on the pyrolysis of diphenylalkanes, **25**, 407
1,3-Dioxolane
Kinetics and mechanism of the vapor phase pyrolysis of 1,3-dioxolane in steam, **12**, 223
Direct analysis
Direct analysis of polypropylene compounds by thermal desorption and pyrolysis mass spectrometry, **26**, 65
Direct chemical ionization
Characterization of algae by pyrolysis-direct chemical ionization (Tandem) mass spectrometry, **18**, 245
Data analysis of pyrolysis-mass spectrometric profiles generated with soft ionization detection: application to barley tissue profiles, **20**, 73
Pyrolysis-direct chemical ionization mass spectrometry of some biopolymers in the positive and negative ionization mode, **15**, 55
Pyrolysis-direct chemical ionization mass spectrometry of the dimorphic fungus *Candida albicans* and the pleomorphic fungus *Ophiostoma ulmi*, **14**, 309
Rapid characterization of *Salmonella* strains with direct chemical ionization pyrolysis, **11**, 329
Direct pyrolysis-mass spectrometry
Thermal degradation mechanisms of amphiphilic acrylic copolymers studied by temperature-resolved pyrolysis-field ionization mass spectrometry, **19**, 285
Thermal degradation products of poly-(styrenesulfides) investigated by direct pyrolysis-mass spectrometry and flash pyrolysis-gas chromatography/mass spectrometry, **29**, 207
Disaccharides

On the presence of anhydro-oligosaccharides in the sirups from the fast pyrolysis of cellulose, **12**, 39
Thermal degradation of different crystalline forms of lactose, **12**, 31
Discriminant analysis
Characterization of algae by pyrolysis-direct chemical ionization (Tandem) mass spectrometry, **18**, 245
Data analysis of pyrolysis-mass spectrometric profiles generated with soft ionization detection: application to barley tissue profiles, **20**, 73
Pyrolysis-direct chemical ionization mass spectrometry of the dimorphic fungus *Candida albicans* and the pleomorphic fungus *Ophiostoma ulmi*, **14**, 309
Rapid characterization of *Salmonella* strains with direct chemical ionization pyrolysis, **11**, 329
The staphylococci: a classification and identification study using pyrolysis-gas-liquid chromatography, **11**, 527
Disilane
A mass spectrometry study of the gas pyrolysis of PH_3 and a PH_3/Si_2H_6 mixture, **26**, 27
Disilane
Thermal dissociation of disilane: quadrupole mass spectrometry investigation, **24**, 51
DNA
A pyrolysis gas chromatographic/mass spectrometric method for measuring the DNA content of cultured mammalian cells, **24**, 107
Curie-point pyrolysis atmospheric pressure chemical ionization mass spectrometry as a probe on the effect of sodium chloride on biopolymers, **13**, 77
Influence of pyrolytic techniques on mass spectra of biopolymers with chemical ionization at atmospheric pressure, **13**, 243
DNA fingerprinting
Rapid discrimination between closely similar oligonucleotides by pyrolysis-mass spectrometry, **28**, 39
Dolomite
Kinetic parameters of the cracking reaction of tar from wood pyrolysis; comparison of dolomite with industrial catalysts, **22**, 47
Domestic refuse
The Siemens Thermal Waste Recycling Process - a modern technology for converting waste into usable products, **27**, 15
Downhole trends
Particle size fraction and downhole depositional trends of a tropical domed peat deposit as determined by pyrolysis GC/FTIR/FID and pyrolysis GC/MS, **18**, 293
Drug analysis
The scope of pyrolysis methylation reactions, **20**, 15
Dynamic and isothermal
Thermal reaction of pentachlorophenol and its salts, **18**, 341
Dynamics
Dynamics of soil organic matter studied by pyrolysis field ionization mass spectrometry, **25**, 123

E_i-elimination
Pyrolysis mechanisms of *O*-(2-hydroxyethyl) celluloses, **25**, 371
E-Glass fibres
An analytical investigation of silane coupling agents on glass fibres, **18**, 261
E. coli HB101
The use of pyrolysis-mass spectrometry to detect the fimbrial adhesive antigen F41 from *Escherichia coli* HB101 (pSLM204), **22**, 19
Ecology
Analytical pyrolysis of humic substances and soils: geochemical, agricultural and ecological consequences, **25**, 97
Effect of additives
Polyaromatization in common synthetic polymers at elevated temperatures,**25**, 25
EG-FT-IR spectroscopy
Pyrolysis-evolved gas-Fourier transform-infrared spectroscopy analysis of aminobutanoic acid isomers, **29**, 103
Egypt
Pyrolysis gas chromatographic studies on Egyptian archaeological specimens: organic patinas on the "Three Princesses" gold vessel, **20**, 229
Pyrolysis-mass spectrometry of natural gums, resins, and waxes and its use for detecting such materials un ancient Egyptian mummy cases (cartonnages), **11**,

195
Electron attachment mass spectrometry
Thermal degradation characteristics of high impact polystyrene/decabromodiphenylether/antimony oxide studied by derivative thermogravimetry and temperature resolved pyrolysis-mass spectrometry. Formation of polybrominated dibenzofurans, antimony (oxy)bromide and brominated styrene oligomers, **20**, 303
Electron spin resonance
Free radicals, kinetics and phase changes in the pyrolysis of eight American coals, **13**, 209
Electron structure
Photodegradation and photo-oxidation of synthetic polymers, **15**, 237
Electrothermal vaporization
Electrothermal vaporization and pyrolysis of materials for environmental analysis, **25**, 37
cis-1,2-Elimination
Laser-powered homogeneous decomposition of isobornyl acetate. Evidence for rearrangement reactions in the gas phase, **14**, 179
Elongation
Dilatometry of wood. Part I. Longitudinal dilatometry of wood untreated and treated with ammonium phosphate, **23**, 175
Emissions
Pyrolysis and combustion of peat and wood as single particles and as a layer, **11**, 149
End group
Pyrolysis-gas chromatographic study of end groups in poly(methyl methacrylate) radically polymerized in toluene solution with benzoyl peroxide as initiator, **15**, 167
Pyrolysis-gas chromatography for end group analysis of polystyrene macromonomers using stepwise pyrolysis combined with on-line methylation, **25**, 1
Enhanced oil recovery
Pyrolysis and combustion kinetics of crude oils, asphaltenes and resins in relation to thermal recovery processes, **20**, 185
Enterotoxin
The use of pyrolysis-mass spectrometry to detect the fimbrial adhesive antigen F41 from *Escherichia coli* HB101 (pSLM204), **22**, 19
Environmental analysis
Electrothermal vaporization and pyrolysis of materials for environmental analysis, **25**, 37
Enzyme digestion
Micro-analytical investigations on lignin in enzyme-digested tobacco lamina and midrib using pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography/mass spectrometry, **19**,153
Epoxy resin
Compositional analysis of epoxy matrices of carbon fibre composites by pyrolysis-gas chromatography/mass spectrometry, **24**, 75
Studies on thermal degradation of epoxy resins by high-resolution pyrolysis-gas chromatography, **12**, 97
The use of pyrolysis-gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, **21**, 207
Erica Arborea
Product composition and kinetics of flash pyrolysis of *Erica Arborea* (biomass), **29**, 73
ESCA
Characterization of the solid residues of vacuum pyrolysis of *Populus tremuloides*, **14**, 281
Escherichia coli
Pyrolysis-tandem mass spectrometry of bacteria, **14**, 7
ESR
ESR spectral study of free radical formation during the pyrolysis of hydroxyamino acids, **28**, 157
The use of ESR in studying the reduction process ($Fe^{3+} \rightarrow Fe^{2+}$) during the isothermal decomposition of ferric oxalate hydrate, **27**, 275
ESR and ENDOR spectroscopy
Pyrolysis-gas chromatography/mass spectrometry and electron impact-, fast atom bombardment-mass spectrometry of sulfonylureas, **21**, 239
Esters
The behaviour of esters in the presence of tetramethylammonium salts at elevated temperatures; flash pyrolysis or flash chemolysis?, **26**, 175
Estuarine isolates
The application of pyrolysis-mass

spectrometry to microbial ecology: rapid characterisation of bacteria isolated from an estuarine environment, **25**, 265
Ethane, 1-trifluoromethoxy-1,1,2,2-tetrafluoro-2-iodo-
Gas-phase decomposition of 1-trifluoromethoxy-1,1,2,2-tetrafluoro-2-iodoethane, **13**, 151
Ether liquids
Mechanisms of flash pyrolysis of ether lipids isolated from the green microalga *Botryococcus braunii* race A, **27**, 155
Ethers, aromatic
Mechanism and kinetics of thermolysis of ethers modelling the oxygen-methylene 'bridge' bonds in coal organic matter, **16**, 57
Ethyl acrylate
Determination of reactive comonomers and/or amino resins in acrylic copolymers used in textile industry, by pyrolysis-gas chromatography-mass spectrometry, **11**, 227
Ethyl phenyl sulphoxide
Pyrolysis of α-carbonyl-substituted cycloalkyl phenyl sulphoxides, **12**, 257
Eucryphia cordifolia
An analytical pyrolysis mass spectrometric study of *Eucryphia cordifolia* wood decayed by white-rot and brown-rot fungi, **19**, 175
Euphorbia cyparissias L.
Chemical characterization of leafy spurge (*Euphorbia esula* L.) by Curie-point pyrolysis-gas chromatography-pattern recognition, **14**, 223
Euphorbia cyparissias L.
Differentiation of leafy spurge (*Euphorbia esula* L.) accessions based on chemical constitution using Curie-point pyrolysis-mass spectrometry-pattern recognition, **17**, 5
Euphorbia esula L.
Chemical characterization of leafy spurge (*Euphorbia esula* L.) by Curie-point pyrolysis-gas chromatography-pattern recognition, **14**, 223
Euphorbia esula L.
Differentiation of leafy spurge (*Euphorbia esula* L.) accessions based on chemical constitution using Curie-point pyrolysis-mass spectrometry-pattern recognition, **17**, 5
Evolution profiles
Enhancement of evolution profiles in pyrolysis-evolved gas-infrared spectroscopy of polymers, **16**, 143
Evolution of individual hydrocarbons (C_1-C_4) by nonisothermal pyrolysis of petroleum source rocks, **22**, 61
Evolution rate
Effect of particle size and temperature on evolution rate of volatiles from coal, **27**, 97
Evolved gas analysis
Enhancement of evolution profiles in pyrolysis-evolved gas-infrared spectroscopy of polymers, **16**, 143
Thermal behaviour of polybenzhydrolimides, **11**, 251
Exhaust emissions
The scope of laser-mass spectrometry and other mass spectrometric techniques for studying engine deposits and exhaust emissions, **26**, 1
Expert System
IONIA: An Expert System for the prediction of the thermal decomposition of condensation polymers, **20**, 57
Explosives
Laser pyrolysis of explosives combined with mass spectral studies of the ignition zone, **24**, 163

Factor analysis
The potential of pyrolysis-mass spectrometry for fermentation quality control, **11**, 549
Factor loadings plots
Principal components analysis of quantitative pyrolysis-gas chromatography and organic petrographic data of kerogens, **18**, 277
Far-from-equilibrium conditions
Effects of an intense thermal flux on a lignocellulosic material, **21**, 305
Fast atom bombardment-mass spectrometry
Preparative isolation of oligomers with a terminal anhydrosugar unit by thermal degradation of chitin and cellulose, **17**, 319
Fast atom bombardment-tandem mass spectrometry
Pyrolysis fast atom bombardment tandem mass spectrometry characterization of coals, **20**, 1

Fast pyrolysis
Fast pyrolysis of natural polysaccharides as a potential industrial process, **19**, 41
Fats
The scope of pyrolysis methylation reactions, **20**, 15
Fatty acids
Characterization of the aliphatic nature of kerogens isolated from marine sediments by vacuum pyrolysis, **11**, 109
Feedstock
Fast pyrolysis of natural polysaccharides as a potential industrial process, **19**, 41
Ferric oxalate hydrate
The use of ESR in studying the reduction process ($Fe^{3+} \rightarrow Fe^{2+}$) during the isothermal decomposition of ferric oxalate hydrate, **27**, 275
Fibre
Use of pyrolysis-gas chromatography/mass spectrometry in the study oflignin assays, **24**, 243
Modeling of filament length distributions, **28**, 255
FID
Studies of the yield of sulphur from a coal sample by pyrolysis-gas chromatography, **25**, 243
Field ionization
Analytical pyrolysis of humic substances and soils: geochemical, agricultural and ecological consequences, **25**, 97
Pyrolysis-field ionization mass spectrometry of aliphatic polyesters and their thermal interactions in mixtures, **15**, 197
Filament growth
Vapor grown carbon fibers from pyrolysis of hydrocarbons: modeling of filament growth and poisoning, **26**, 131
Filament length distributions
Vapor grown carbon Fibers.Investigation of pyrolysis products of polyacrylamide by pyrolysis-gas chromatography, **22**, 129
Fimbrial
The use of pyrolysis-mass spectrometry to detect the fimbrial adhesive antigen F41 from *Escherichia coli* HB101 (pSLM204), **22**, 19
Fine root tissue
Analysis of leaf and fine root litter from a subtropical montane rain forest by pyrolysis-gas chromatography/mass spectrometry, **27**, 1
Fire-resistant materials
Mechanism of action and pyrolysis of brominated fire retardants in acrylonitrile-butadiene-styrene polymers, **11**, 511
Pyrolysis studies of flame retarded plastic systems, **11**, 499
Reaction products of triglycidyl isocyanurate with orthophosphoric and polyphosphoric acids: thermal behaviour and pyrolysis studies, **11**, 263
Studies on the flame-retardant properties of transition metal complexes of cellulose ammonium phosphate, **11**, 465
The role of pyrolysis in polymer combustion and flame retardance, **11**, 451
First-order reactions
Kinetics of cellulose pyrolysis modelled by three consecutive first-order reactions, **17**, 37
Flame ionization detection
Development of a pyrolysis-gas chromatographic-Fourier transform infrared spectroscopic technique for the study of woody peats, **14**, 295
Pyrolysis-gas chromatography/mass spectrometry and pyrolysis-gas chromatography/Fourier transform infrared/flame ionization detection studies of particle size fractions of woody peat, **16**, 5
Flame photometric detection
Determination of sulfates in urban air by pyrolysis-gas chromatography with name photometric detection, **20**, 263
Flame retardant
Thermal degradation characteristics of high impact polystyrene/decabromodiphenylether/antimony oxide studied by derivative thermogravimetry and temperature resolved pyrolysis-mass spectrometry. Formation of polybrominated dibenzofurans, antimony (oxy)bromide and brominated styrene oligomers, **20**, 303
Flames
Mechanistic aspects of ionic reactions in flames, **25**, 361
Flash chemolysis
The behaviour of esters in the presence of tetramethylammonium salts at elevated temperatures; flash pyrolysis or flash chemolysis?, **26**, 175
Flash pyrolysis

A study of chemical transformation of glycerol ether lipids to hydrocarbons by flash and hydrous pyrolysis, **23**, 121
Characterisation of kerogens, coals and asphaltenes by quantitative pyrolysis-mass spectrometry, **20**, 25
Comparison of flash pyrolysis, differential scanning calorimetry, ^{13}C NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287
Flash pyrolysis of coal, coal maceral, and coal-derived pyrite with on-line characterization of volatile sulfur compounds, **13**, 199
Flash pyrolysis of coal sub-structures. A mechanistic and kinetic evaluation, **25**, 229
Flash pyrolysis of coal sub-structures adsorbed on a carbosieve, **24**, 311
Flash pyrolysis of Greek lignite, **21**, 293
Flash pyrolysis of Klason lignin in a Pyroprobe 1000, **27**, 221
Flash pyrolysis of silicon-bound hydrocarbons, **20**, 141
Kinetic study of the flash pyrolysis of almond shells in a fluidized bed reactor at high temperatures, **27**, 245
Matrix isolation-Fourier transform infrared spectroscopy studies of flash pyrolysis of four coal tars, **14**, 99
Mechanisms of flash pyrolysis of ether lipids isolated from the green microalga *Botryococcus braunii* race A, **27**, 155
Organic sulphur compounds produced by flash pyrolysis of Timhadit oil shale, **17**, 217
Production of olefins from flash pyrolysis of cellulose-containing material, **17**, 47
Scope and limitations of flash pyrolysis gas chromatography/mass spectrometry as revealed by the thermal behaviour of high molecular-weight lipids derived from the green microalga *Botryococcus braunii*, **28**, 183
The behaviour of esters in the presence of tetramethylammonium salts at elevated temperatures: flash pyrolysis or flash chemolysis?, **26**, 175

Flash pyrolysis-gas chromatography
The indexing of monoglycerol diether lipids by flash pyrolysis-gas chromatography, **24**, 301

Flash pyrolysis-gas chromatography/mass spectrometry
Thermal degradation products of poly(styrenesulfides) investigated by direct pyrolysis-mass spectrometry and flash pyrolysis-gas chromatography/mass spectrometry, **29**, 207

Flash vacuum pyrolysis
Flash vacuum pyrolysis of 1-benzoyl-pyrazole, **16**, 165

Fluidized bed
An investigation of the factors controlling the pyrolysis product yield of Greek wood biomass in a fluidized bed, **18**, 127
Fluidized bed pyrolysis of digested sewage sludge, **16**, 27
Gas production by almond shell pyrolysis at high temperature, **28**, 13

Fluidized bed process
Experimental approach to the catalyzed cracking reaction of tar from wood pyrolysis, **21**, 265

Fluid bed pyrolysis
Fluid bed pyrolysis of anhydride-hardened epoxy resins and polyether-polyurethane by the Hamburg process, **25**, 293

Fluidized bed reactor
Kinetic model of the pyrolysis of polythene in a fluidized bed reactor, **30**, 101
kinetic study of the flash pyrolysis of almond shells in a fluidized bed reactor at high temperatures, **27**, 245
Preparation of cyanuric and isocyanic acids in a fluidized bed reactor, **25**, 311

Food
The analysis of Listeria monocytogenes by pyrolysis-mass spectrometry, **22**, 29

Food colours
Analysis of caramel colours. Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry and simulation of pyrolysis-mass spectrometry, **15**, 159

Forages
Pyrolysis-gas chromatography/mass spectrometry of lignocellulosics in forages and by-products, **19**, 203
Use of pyrolysis-gas chromatography/mass spectrometry in the study of lignin assays, **24**, 243

Formaldehyde novolacs
Sequence of phenolic units in phenol-

formaldehyde polycondensates studied by pyrolysis-gas chromatography/mass spectrometry, **19**, 251
Forest damage
Analytical pyrolysis and environmental research, **15**, 3
Forgeries
Application of pyrolysis-gas chromatography and pyrolysis-gas chromatography/mass spectrometry to the unmasking of amber forgeries, **25**, 77
Formaldehyde, polymers
Pyrolysis-mass spectrometric investigations of the mechanistic and kinetic aspects of thermal degradation of phenol-formaldehyde polycondensates, **12**, 265
Fossil fuels
Nonaqueous potentiometry for analyses of nitrogen bases from asphaltite and oil shale pyrolysis products, **17**, 227
Fouling
New results about the mechanism of TLE fouling in steam crackers, **27**, 45
FPD
Studies of the yield of sulphur from a coal sample by pyrolysis-gas chromatography, **25**, 243
Free radicals
ESR spectral study of free radical formation during the pyrolysis of hydroxy-amino acids, **28**, 157
Free radicals, kinetics and phase changes in the pyrolysis of eight American coals, **13**, 209
Free radical chain mechanism
Mechanistic modeling of the pyrolysis of *n*-hexane, **19**, 29
Friedooleanane
Characterisation of subfossil *Sphagnum* leaves, rootlets of Ericaceae and their peat by pyrolysis-high-resolution gas chromatography-mass spectrometry, **11**, 377
FT-IR
A gas phase pyrolysis gas chromatography-Fourier transform infrared system for use in thermal decomposition studies of volatile compounds, **13**, 63
An analytical investigation of the thermal degradation of a cation-exchange resin Part 1, **16**, 255
Analysis of coal by thermogravimetry-Fourier transform infrared spectroscopy, **19**, 1
Coal characterization using pyrolysis-Fourier transform infrared spectroscopy, **20**, 171
Development of a pyrolysis-gas chromatographic-Fourier transform infrared spectroscopic technique for the study of woody peats, **14**, 295
First chemical events in pyrolysis of wood, **13**, 221
Influence of acid pretreatment (H_2SO_4, HCl, HNO_3) on reaction selectivity in the vacuum pyrolysis of cellulose, **27**, 25
Matrix isolation-Fourier transform infrared spectroscopy studies of flash pyrolysis of four coal tars, **14**, 99
Matrix isolation-Fourier transform infrared spectroscopy studies of slow pyrolysis processes for four coals, **14**, 115
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis-gas chromatography and Fourier-transform infrared spectroscopy, **21**, 147
Pyrolysis of peat studied by thermo-gravimetry and Fourier transform infrared spectroscopy, **15**, 297
Pyrolysis-gas chromatography/mass spectrometry and pyrolysis-gas chroma-tography/Fourier transform infrared/flame ionization detection studies of particle size fractions of woody peat, **16**, 5
Studies of thermal transformations of fulvic acids using Fourier transform-infrared emission spectroscopy, **23**, 73
Thermal decomposition studies of some organophosphorus compounds, **16**, 37
Volatile products of oxidative pyrolysis of wood: influence of metal ions, **17**, 261
Fuel formation
Pyrolysis and combustion kinetics of crude oils, asphaltenes and resins in relation to thermal recovery processes, **20**, 185
Fuels
Comparative study of the isothermal pyrolysis kinetic behaviour of some oil shales and coals, **14**, 49
Fossil fuels and synthetic polymers: isothermal pyrolysis kinetics as indication of structural resemblance, **14**, 73
Fuels, fossil
Sulphur isotope composition of H_2S

evolved during the non-isothermal pyrolysis of sulphur-containing materials, **12**, 19
Fullerenes
Pyrolysis of KH carbon residues: a method of further production of fullerenes and specific formation of C_{84}, **29**, 1
Fulvic acids
Characterization and dynamics of organic compounds in forest humus studied by pyrolysis-gas chromatography/ electron impact mass spectrometry and pyrolysis-(high-resolution) field ionization mass spectrometry, **13**, 319
Pyrolysis derivatization of humic substances. I. Pyrolysis of fulvic acids in the presence of tetramethylammonium hydroxide, **28**, 71
Pyrolysis and soft ionization mass spectrometry of aquatic/terrestrial humic substances and soils, **12**, 149
Studies of thermal transformations of fulvic acids using Fourier transform-infrared emission spectroscopy, **23**, 73
Fungi
Characterization of *Agaricales* spores by pyrolysis-capillary gas chromatography and pyrolysis-gas chromatography- mass spectrometry, **15**, 137
Preliminary study of fungal spores by pyrolysis-gas chromatography, **11**, 539
Pyrolysis-direct chemical ionization mass spectrometry of the dimorphic fungus *Candida albicans* and the pleomorphic fungus *Ophiastoma ulmi*, **14**, 309
Furan compounds
Pyrolysis of various furan model compounds, **19**, 131
Furan derivatives
Hydrothermal formation of hydroxylated benzenes from furan derivatives, **28**, 245
Fusarium oxysporum f.sp. *dianthi*
A microanalytical approach to plant tissue characterization a comparative study of healthy and fungus-infected carnation by pyrolysis-mass spectrometry, **19**, 213
Fusen
Pyrolysis of "Fusen'', **25**, 285
Fuzzy c-varieties pattern recognition
Pattern recognition studies of Curie-point pyrolysis-gas chromatographic data from materials important to agriculture, **15**, 357
Gas analysis
Pyrolysis of peat studied by thermo-gravimetry and Fourier transform infrared spectroscopy, **15**, 297
Gas chromatography
A comparative study of three different pyrolysis methods used to characterise a biopolymer isolated from fossil and extant dammar resins, **20**, 125
A gas phase pyrolysis gas chromatography-Fourier transform infrared system for use in thermal decomposition studies of volatile compounds, **13**, 63
A new pyrolyzer for laser pyrolysis-gas chromatography/ mass spectrometry experiments, **23**, 165
A pyrolysis-derivatisation-gas chromatography technique for the structural elucidation of some synthetic polymers, **16**, 323
A review of biomarkers in kerogens as determined by pyrolysis-gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **11**, 93
A simple method for the introduction of low molecular weight reference compounds for the determination of retention indices or retention time comparison in Curie-point pyrolysis studies, **24**, 191
An analytical investigation of silane coupling agents on glass fibres, **18**, 261
An analytical investigation of the thermal degradation of a cation-exchange resin Part, **16**, 255
An analytical investigation of the thermal degradation of a cation-exchange resin Part 2, **16**, 269
Amino acid sequence information in proteins and complex proteinaceous material revealed by pyrolysis-capillary gas chromatography- low and high resolution mass spectrometry, **11**, 313
Analysis of caramel colours. Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry and simulation of pyrolysis-mass spectrometry, **15**, 159
Analysis of 2,6-diaryl-3,7-dioxabicyclo-[3.3.0.]octanes and dibenzylbutyrolactones by pyrolysis-gas chromatography/ mass

spectrometry, **23**, 135
Analysis of insoluble carbonaceous materials from airborne particles collected in pristine regions of Colorado, **18**, 189
Analysis of lignin by pyrolysis-gas chromatography. I. Effect of inorganic substances on guaiacol-derivative yield from softwoods and their lignins, **18**, 59
Analytical Curie-point pyrolysis-gas chromatography as a tool to characterize key parameters relevant to coal reactivity, **15**, 319
Analytical pyrolysis and semicontinuous catalytic hydropyrolysis of Organocell lignin, **25**, 335
Analytical pyrolysis as a tool for the characterization of organic substances in artistic and archaeological objects, **20**, 253
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393
Applications of analytical pyrolysis to the study of stony cultural properties, **20**, 239
Application of pyrolysis-gas chromatography and pyrolysis-gas chromatography/mass spectrometry to the unmasking of amber forgeries, **25**, 77
2-Butenoic acid, a chemical marker for poly-β-hydroxybutyrate identified by pyrolysis-gas chromatography/mass spectrometry in analyses of whole microbial cells, **19**, 237
Characterization and dynamics of organic compounds in forest humus studied by pyrolysis-gas chromatography/electron impact mass spectrometry and pyrolysis-(high-resolution) field ionization mass spectrometry, **13**, 319
Characterization by pyrolysis-gas chromatography of wheat straw fermented with white rot fungus *Stropharia rugosoannulata*, **15**, 129
Characterization of *Agaricales* spores by pyrolysis-capillary gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **15**, 137
Characterization of bacteria by oxidative and non-oxidative pyrolysis-gas chromatography/ion trap mass spectrometry, **24**, 199
Characterization of bacteria by quartz tube pyrolysis-gas chromatography/ion trap mass spectrometry, **24**, 23
Characterisation of beech wood and its holocellulose and xylan fractions by pyrolysis-gas chromatography-mass spectrometry, **11**, 417
Characterization of lignin and carbohydrates dissolved in groundwood pulping by pyrolysis-gas chromatography/mass spectrometry, **17**, 305
Characterization of refuse-derived fuel by pyrolysis-gas chromatography and gas chromatography/mass spectrometry, **17**, 169
Characterisation of subfossil *Sphagnum* leaves, rootlets of Ericaceae and their peat by pyrolysis-high-resolution gas chromatography-mass spectrometry, **11**, 377
Characterization of the aliphatic nature of kerogens isolated from marine sediments by vacuum pyrolysis, **11**, 109
Characterization of the saccharide composition of heteropolysaccharides by pyrolysis-capillary gas chromatography-mass spectrometry, **11**, 297
Characterization of thermolysis products of cuticular wax compounds of green tobacco leaf, **17**, 25
Characterization of tobacco lignin preparations by Curie-point pyrolysis-mass spectrometry and Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry, **15**, 97
Characterization of used tire vacuum pyrolysis oil: nitrogenous compounds from the naphtha fraction, **22**, 205
Chemical characterization of Hungarian brown coals by Curie-point pyrolysis-low-energy electron impact mass spectrometry and multivariate analysis and by Curie-point pyrolysis-gas chromatography-photoionization mass spectrometry, **11**, 125
Chemical characterization of leafy spurge (*Euphorbia esula* L.) by Curie-point pyrolysis-gas chromatography-pattern recognition, **14**, 223
Chemical characterization of recent and buried woods by analytical pyrolysis Comparison of pyrolysis data with ^{13}C NMR and wet chemical data, **11**, 437
Chemical structure of a soil humic acid as revealed by analytical pyrolysis, **11**, 367
Characterization of polyurethanes by

high-resolution pyrolysis-capillary gas chromatography, **12**, 115
Chemometric analysis of pyrolysate compositions: a model for predicting the organic matter type of source rocks using pyrolysis-gas chromatography, **20**, 87
Comparison of flash pyrolysis, differential scanning calorimetry, ^{13}C NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287
Composition and microstructure of butadiene-isoprene copolymers from pyrolysis-gas chromatographic/mass spectrometric data, **23**, 33
Compositional analysis of acrylic thermosetting coatings by pyrolysis-gas chromatography, **12**, 293
Compositional analysis of epoxy matrices of carbon fibre composites by pyrolysis-gas chromatography/mass spectrometry, **24**, 75
Cracking of decalin and tetralin in the presence of mixtures of n-decane and steam at about 810 °C, **11**, 39
Curie-point pyrolysis and gas chromatography/mass spectrometry of 5,5'-oxydimethylenebis(2-furfural), **17**, 91
Curie-point pyrolysis-gas chromatography of aliphatic amines in the presence of metal powder and inorganic salt, **17**, 181
Curie-point pyrolysis-capillary gas chromatography-high-resolution mass spectrometry of microcrystalline cellulose, **14**, 237
Dealkylation and rearrangement of phenacylammonium salts in a gas chromatographic injector, **27**, 199
Degradation products of polymer components. Part 1. Toxicological aspects of automobile fires, **16**, 173
Determination of alkaloidal narcotics by pyrolysis-gas chromatography, **17**, 83
Determination of styrene-butadiene and isoprene tire tread rubbers in piled particulate matter, **15**, 227
Determination of sulfates in urban air by pyrolysis-gas chromatography with flame photometric detection, **20**, 263
Development of a pyrolysis-gas chromatographic-Fourier transform infrared spectroscopic technique for the study of woody peats, **14**, 295
Development of multiple cold trap pyrolysis, **28**, 167
Differentiation of block, random and block-random ethylene/vinylcyclohexane copolymers by pyrolysis-gas chromatography/mass spectrometry, **26**, 185
Discrimination and clustering of streptococci by pyrolysis gas chromatography/mass spectrometry and multivariate data analysis, **18**, 97
Effect of added inorganic salts to a pyrolysis foil on pyrolysis of benzylamine by Curie-point pyrolysis-gas chromatography, **22**, 179
Effect of adding metal powder and inorganic salt to a pyrolysis foil on selective pyrolysis of phenyl alkylamines by Curie-point pyrolysis-gas chromatography, **17**, 371
Evaluation of compositional distributions of styrene-maleic anhydride copolymers by thin-layer chromatography/ pyrolysis-gas chromatography, **16**, 159
Evidence of lignin residues in humic acids isolated from vermicomposts, **15**, 121
Flash pyrolysis for the continuous conversion of reed into hydrocarbons, **13**, 233
Flash pyrolysis of coal, coal maceral, and coal-derived pyrite with on-line characterization of volatile sulfur compounds, **13**, 199
Flash pyrolysis of silicon-bound hydrocarbons, **20**, 141
Gas chromatography analysis of propane fraction derived from pyrolysis of gas oil, **21**, 111
Gas chromatographic and capillary gas chromatographic-mass spectrometric analysis of thermal decomposition products of liquid crystal polymers, **11**, 233
High temperature pyrolysis of novolac resin biomass composites, **30**, 161
Identification of polar monomers in poly acrylate dispersions with pyrolysis-gas chromatography/mass spectrometry, **19**, 279
Investigation of pyrolysis products of polyacrylamide by pyrolysis-gas chromatography, **22**, 129
Kinetics and mechanism of the thermal

degradation of poly-*p*-chloromethyl-styrene, **28**, 205
Laboratory scale pyrolysis experiments using halogenated benzenes, **17**, 357
Laser pyrolysis-gas chromatography/mass spectrometry of two synthetic organic polymers, **21**, 195
Library of pyrolysis-gas chromatography data for synthetic polymers, **15**, 209
Microfurnace pyrolysis injector for capillary gas chromatography, **18**, 269
Mineral-catalysed transformations of terminal alkenes during pyrolysis, **14**, 191
Molecular archaeology: analysis of charred (food) remains from prehistoric pottery by pyrolysis-gas chromatography/mass spectrometry, **20**, 197
Molecular weight and pyrolysis products distribution of polymers. I. Polystyrene, **24**, 61
Natural rubber pyrolysis: study of temperature- and thickness-dependence indicates dimer formation mechanism, **19**, 301
Particle size fraction and downhole depositional trends of a tropical domed peat deposit as determined by pyrolysis GC/FTIR/FID and pyrolysis GC/MS, **18**, 293
Pattern recognition studies of Curie-point pyrolysis-gas chromatographic data from materials important to agriculture, **15**, 357
Polymer degradation modified by blending with polymers chosen on the basis of their phi-factors, **25**, 11
Preliminary study of fungal spores by pyrolysis-gas chromatography, **11**, 539
Principal components analysis of quantitative pyrolysis-gas chromatography and organic petrographic data of kerogens, **18**, 277
Products from the flash pyrolysis of peat and pine bark, **16**, 355
Pyrolysis behaviour of a styrene-ethylene (styrene-hydrogenated butadiene) copolymer, **15**, 261
Pyrolysis of various furan model compounds, **19**, 131
Pyrolysis of various organosilazanes used as single precursor of SiNXCy:H films in OMCVD process, **17**, 67
Pyrolysis of poly-4-vinylpyridine: degradation mechanism and structural analysis, **12**, 135
Pyrolysis of tetralin at 450 °C 17 Gas chromatography An investigation of the insoluble carbonaceous material in airborne particulates from vehicular traffic, **14**, 83
Pyrolysis-gas chromatographic study of end groups in poly(methyl methacrylate) radically polymerized in toluene solution with benzoyl peroxide as initiator, **15**, 167
Pyrolysis gas chromatographic studies on Egyptian archaeological specimens: organic patinas on the "Three Princesses" gold vessel, **20**, 229
Pyrolysis gas chromatographic/mass spectrometric behaviour of polyvinyl-cyclohexane and vinylcyclohexane-styrene copolymers, **17**, 291
Pyrolysis-gas chromatography of separated zones on thin-layer chromatograms. IV. Application to the determination of some sulfonamide drugs, **14**, 323
Pyrolysis-gas chromatography/mass spectrometry and electron impact-, fast atom bombardment-mass spectrometry of sulfonylureas, **21**, 239
Pyrolysis-gas chromatography/mass spectrometry and pyrolysis-gas chromatography/Fourier transform infrared/flame ionization detection studies of particle size fractions of woody peat, **16**, 5
Pyrolysis-gas chromatography/mass spectrometry identification of styrene cross-linked polyester and vinyl ester resins, **22**, 113
Pyrolysis-gas chromatography/mass spectrometry of lignocellulosics in forages and by-products, **19**, 203
Pyrolysis-gas chromatography-mass spectrometry of two trimeric lignin model compounds with alkyl-aryl ether structure, **14**, 135
Pyrolysis-mass spectrometric investigations of the mechanistic and kinetic aspects of thermal degradation of phenol-formaldehyde polycondensates, **12**, 265
Qualitative analysis of chlorolignins and lignosulphonates in pulp mill effluents entering the river Rhine using pyrolysis-mass spectrometry and

pyrolysis-gas chromatography/mass spectrometry, **20**, 275
Quantitative analysis of saccharides in wood pulps by quartz-tube pulse pyrolysis-polar phase gas chromatography, **19**, 105
Quantitative analysis of the major saccharides in sulfite-treated wood pulps by pyrolysis-gas chromatography: the effect of metal ions, **23**, 153
Reproducibility in pyrolysis. Recent developments, **12**, 75
Scope and limitations of several pyrolysis methods in the structural elucidation of a macromolecular plant constituent in the leaf cuticle of *Agave americana* L., **15**, 29
Sequence of phenolic units in phenol-formaldehyde polycondensates studied by pyrolysis-gas chromatography/mass spectrometry, **19**, 251
Simultaneous determination of natural and styrene-butadiene rubber tire tread particles in atmospheric dusts by pyrolysis-gas chromatography, **16**, 49
Solid state pyrolyses. Part 2. Solid state kinetics studied by pyrolysis-gas chromatography, **19**, 15
Some empirical considerations on the pyrolysis-gas chromatographic conditions required to obtain characteristic and reliable high-resolution pyrograms for polymer samples, **11**, 181
Structure determination of alkyd resins by simultaneous pyrolysis methylation, **18**, 233
Studies on isolated lignins and lignins in woody materials by pyrolysis-gas chromatography-mass spectrometry and off-line pyrolysis-gas chromatography with flame ionization detection, **11**, 403
Studies on the stabilization of poly(vinyl chloride) with a stabilizer containing nitrate compounds, **16**, 335
Studies on the thermal degradation of butyl rubber, **27**, 207
Studies on thermal decomposition of nitrocellulose by pyrolysis-gas chromatography, **14**, 163
Studies on thermal degradation of epoxy resins by high-resolution pyrolysis-gas chromatography, **12**, 97
Tar formation under different biomass gasification conditions, **29**, 169
The decomposition of Posidonia Shale and Green River Shale kerogens using microscale sealed vessel (MSSV) pyrolysis, **20**, 107
The effect of carbon black filler on the pyrolysis behaviour of vulcanized *cis*-polybutadiene, **13**, 287
The investigation of poly(methyl methacrylate-diallyl phthalate) gradient index materials by pyrolysis-capillary gas chromatography and pyrolysis-capillary gas chromatography/mass spectrometry, **21**, 327
The potential of pyrolysis-gas chromatography/mass spectrometry in the recognition of ancient painting media, **24**, 227
The pyrolysis reactions and jet fuel potential of a Green River shale oil, **22**, 73
The staphylococci: a classification and identification study using pyrolysis-gas-liquid chromatography, **11**, 527
The thermal degradation of poly(aryl-ether -ether-ketone) (PEEK) as monitored by pyrolysis-GC/MS and TG/MS, **18**, 163
The use of pyrolysis-gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, **21**, 207
Thermal decomposition of aryl-alicyclic polyimides studied by thermogravimetry/mass spectrometry and pyrolysis-gas chromatography/mass spectrometry, **23**, 229
Thermal decomposition of dimethyl-phenols, 83
Thermal decomposition of polymeric silanes, **15**, 175
Thermal decomposition of polystyrene: volatile compounds from large-scale pyrolysis, **18**, 143
Thermal decomposition studies of some organophosphorus compounds, **16**, 37
Thermal degradation aspects of model copolymers based on styrene, maleic anhydride, diethyl maleate and diethyl fumarate, **16**, 221
Trace determination of high molecular weight polyvinylpyrrolidone by pyrolysis-gas chromatography, **17**, 251
Gas chromatographic separation
Pyrolysis-gas chromatographic analyses of organic matter in soils using

nitrogen-selective detection, **19**, 193
Winter wheat cultivar differentiation by Curie point pyrolysis-gas chromatography-pattern recognition of whole seeds: a feasibility study, **22**, 1
Gas chromatography, capillary
Curie-point pyrolysis-capillary gas chromatography-mass spectrometry of polyhydroxyallcylpyrazines, **13**, 191
Gas chromatography-mass spectrometry
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone, **11**, 277
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone. Part II. The fate of the styrene moiety, **13**, 305
Determination of reactive comonomers and/or amino resins in acrylic copolymers used in textile industry, by pyrolysis-gas chromatography-mass spectrometry, **11**, 227
Evidence for the formation of 2,4imidazol-idinediones and pyrrotidino[1.2*a*]-3,6-piper-azinediones in human hair pyrolyzate by pyrolysis-gas chromatography-mass spectrometry-mass spectrometry, **11**, 15
Mechanistic aspects of the pyrolytic methylation and transesterification of bacterial cell wall lipids, **21**, 221
Thermal decomposition of segments with two aromatic rings in thermostable macromolecules, **11**, 245
Gas oil
Gas chromatography analysis of propane fraction derived from pyrolysis of gas oil, **21**, 111
Gas phase
Role of the trichlorosilyl radical and dichlorosilylene in gas-phase reactions of trichlorosilane, **28**, 81
Thermal dissociation of disilane: quadrupole mass spectrometry investigation, **24**, 51
Gas-phase reactions
Radical-sensitized thermal decomposition of 1,3-dioxolane in the gas phase, **18**, 219
Gases
An investigation of the factors controlling the pyrolysis product yield of Greek wood biomass in a fluidized bed, **18**, 127
GC/MS
A pyrolysis-gas chromatography/mass spectrometry study on coals, **29**, 15
Analysis of soot from the combustion of alkylbenzenes, **26**, 53
Flash pyrolysis of coal sub-structures adsorbed on a carbosieve, **24**, 311
Pyrolysis-gas chromatography/mass spectrometry in the characterization of glycated albumin, **24**, 87
Study of calcium soap pyrolysates derived from Macauba fruit (*Acrocomia sclerocarpa M.*). Derivatization and analysis by GC/MS and CI-MS, **29**, 153
The scope of laser mass spectrometry and other mass spectrometric techniques for studying engine deposits and exhaust emissions, **26**, 1
Thermolytic decomposition of coniferyl alcohol, **23**, 195
Gel permeation chromatography
Products from the flash pyrolysis of peat and pine bark, **16**, 355
Geochemistry
Analytical pyrolysis of humic substances and soils: geochemical, agricultural and ecological consequences, **25**, 97
Applications of pyrolysis in petroleum geochemistry: a bibliography, **13**, 9
Geological sediments
Indications from analytical pyrolysis on the evolution of organic materials in the temperate environment, **11**, 355
Geopolymers
Phenol-formaldehyde resins as a link to the understanding of the isothermal kinetic behavior of geopolymers (kerogens and coals), **19**, 265
Germanium
Synthesis and pyrolysis of organometallic precursors of Si-C-Ge alloy amorphous thin films, **22**, 95
Glass fiber
Analysis of lignin by pyrolysis-gas chromatography. I. Effect of inorganic substances on guaiacol-derivative yield from softwoods and their lignins, **18**, 59
Glucan
Pyrolysis-direct chemical ionization mass

spectrometry of some biopolymers in the positive and negative ionization mode, **15**, 55
Glucose
Carbohydrate pyrolysis. I. A continuous mass spectrometric method for the analysis of the resulting gaseous mixture, **11**, 341
Pretreatment of wood and cellulose for production of sugars by fast pyrolysis, **16**, 127
Quantitative analysis of saccharides in wood pulps by quartz-tube pulse pyrolysis-polar phase gas chromatography, **19**, 105
Glycated proteins
A new pyrolyzer for laser pyrolysis-gas chromatography/mass spectrometry experiments, **23**, 165
Glycerol ether lipids
A study of chemical transformation of glycerol ether lipids to hydrocarbons by flash and hydrous pyrolysis, **23**, 121
Glycogen
Curie-point pyrolysis atmospheric pressure chemical ionization mass spectrometry as a probe on the effect of sodium chloride on biopolymers, **13**, 77
Influence of pyrolytic techniques on mass spectra of biopolymers with chemical ionization at atmospheric pressure, **13**, 243
Quantitative analysis of the pyrolysis-mass spectra of complex mixtures using artificial neural networks: application to amino acids in glycogen, **26**, 93
Gold
Pyrolysis gas chromatographic studies on Egyptian archaeological specimens: organic patinas on the "Three Princesses" gold vessel, **20**, 229
Gradient-index (GRIN)
The investigation of poly(methyl methacrylate-diallyl phthalate) gradient index materials by pyrolysis-capillary gas chromatography and pyrolysis-capillary gas chromatography/mass spectrometry, **21**, 327
Graphitized carbon black
The pyrolysis of tetrethoxysilane over carbon and silica substrates, **15**, 275
Groundwater
Analytical pyrolysis and environmental research, **15**, 3
Groundwood pulping
Characterization of lignin and carbohydrates dissolved in groundwood pulping by pyrolysis-gas chromatography/mass spectrometry, **17**, 305
Gravimetry
Thermal reaction of pentachlorophenol and its salts, **18**, 341
Guaiacol derivatives
Analysis of lignin by pyrolysis-gas chromatography. I. Effect of inorganic substances on guaiacol-derivative yield from softwoods and their lignins, **18**, 59
Guaiacylglycerol-β-guaiacyl ether
Characterization of lignin and carbohydrates dissolved in groundwood pulping by pyrolysis-gas chromatography/mass spectrometry, **17**, 305
Gums, natural
Pyrolysis-mass spectrometry of natural gums, resins, and waxes and its use for detecting such materials in ancient Egyptian mummy cases (cartonnages), **11**, 195

Hair
Evidence for the formation of 2,4imidazolidinediones and pyrrolidinol[1,2*a*]-3,6-piperazinediones in human hair pyrolyzate by pyrolysis-gas chromatography-mass spectrometry-mass spectrometry, **11**, 15
Halogenated benzenes
Laboratory scale pyrolysis experiments using halogenated benzenes, **17**, 357
Hamburg Process
Pyrolysis of "Fusen'', **25**, 285
Fluid bed pyrolysis of anhydride-hardened epoxy resins and polyether polyurethane by the Hamburg process, **25**, 293
Hardener
The use of pyrolysis-gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, **21**, 207
HCl
Dehalogenation of pyrolysis products, **30**, 35
Heat transfer
A three-dimensional model for determination of kinetic data from the pyrolysis of beech wood, **25**, 387

The effects of heat and mass transport on the results of thermal decomposition studies. Part 1. The three reactions of calcium oxalate monohydrate, **11**, 71
Heating rates
Thermal degradation mechanisms of amphiphilic acrylic copolymers studied by temperature-resolved pyrolysis-field ionization mass spectrometry, **19**, 285
Helium
Pyrolysis-gas chromatography-mass spectrometry of two trimeric lignin model compounds with alkyl-aryl ether structure, **14**, 135
Hemicellulose
A microanalytical approach to plant tissue characterization: a comparative study of healthy and fungus infected carnation by pyrolysis-mass spectrometry, **19**, 213
Analysis of beech wood samples, its milled wood lignin and polysaccharide fractions by platinum filament pyrolysis-mass spectrometry, **17**, 97
Analytical pyrolysis and environmental research, **15**, 3
Characterisation of beech wood and its holocellulose and xylan fractions by pyrolysis-gas chromatography-mass spectrometry, **11**, 417
First chemical events in pyrolysis of wood, **13**, 221
Pyrolysis-gas chromatography/mass spectrometry of wheat straw fractions obtained by alkaline treatments used in pulping processes, **27**, 57
Thermal characterization analysis of milkweed floss, **24**, 147
Volatile products of oxidative pyrolysis of wood: influence of metal ions, **17**, 261
Herbicides
Investigations into the thermal decomposition of the pesticides Metoxuron and Chloridazon, **16**, 213
Heterogeneous environment
Effect of cross-linking on the pyrolysis of diphenylalkanes, **25**, 407
Hexachlorobenzene
Experimental study of the quantitative conversion of hexachlorobenzene during high temperature pyrolysis, **27**, 281
Thermal decomposition of pentachlorobenzene, hexachlorobenzene and octachlorostyrene in air, **14**, 25
Hexamethyldisiloxane
Laser-induced decomposition of trimethyl (methoxy)silane, hexamethyldisiloxane and tetramethoxysilane for production of silicon-containing coatings, **18**, 71
n-Hexane
Thermal decomposition of 3-methylpentane and *n*-hexane: reaction mechanism and correlations between structure and formation of light olefins, **12**, 243
Hexane
Mechanistic modeling of the pyrolysis of n-hexane, **19**, 29
Hexoses
Characterization of the saccharide composition of heteropolysaccharides by pyrolysis- capillary gas chromatography-mass spectrometry, **11**, 297
Hierarchical cluster analysis
Pattern recognition studies of Curie-point pyrolysis-gas chromatographic data from materials important to agriculture, **15**, 357
High impact polystyrene
Thermal degradation characteristics of high impact polystyrene/decabromodiphenylether/antimony oxide studied by derivative thermogravimetry and temperature resolved pyrolysis-mass spectrometry. Formation of polybrominated dibenzofurans, antimony (oxy)bromide and brominated styrene oligomers, **20**, 303
High-molecular-weight lipids
Scope and limitations of flash pyrolysis-gas chromatography/mass spectrometry as revealed by the thermal behaviour of high molecular-weight lipids derived from the green microalga *Botryococcus braunii*, **28**, 183
High-resolution mass spectrometry
Curie-point pyrolysis-capillary gas chromatography-high-resolution mass spectrometry of microcrystalline cellulose, **14**, 237
High-resolution mass spectrometry
Characterization of algae by pyrolysis-direct chemical ionization (Tandem) mass spectrometry, **18**, 245
High-resolution pyrolysis-GC
Characterization of poly(styrene-dimethylsiloxane) block copolymer by high-resolution pyrolysis-gas chromatography/mass spectrometry, **18**,

79
High temperature
Experimental study of the quantitative conversion of hexachlorobenzene during high temperature pyrolysis, **27**, 281
High-temperature gas chromatography
Scope and limitations of flash pyrolysis-gas chromatography/mass spectrometry as revealed by the thermal behaviour of high molecular-weight lipids derived from the green microalga *Botryococcus braunii*, **28**, 183
Highly branched structure
Investigation of pyrolytically produced condensates of phenol-formaldehyde resins, in relation to their structure and decomposition mechanism, **22**, 153
Holm-oak
Influence of particle size and pyrolysis conditions on yield, density and some textural parameters of chars prepared from holm-oak wood, **12**, 61
Homogeneous decomposition
Laser induced decomposition of 3-pyridinyl(trimethyl)- and 3-pyridinyl-(triethoxy)silane, **28**, 175
Laser powered homogeneous decomposition of vinyl acetate, **26**, 21
Honey bees
Pattern recognition studies of Curie-point pyrolysis-gas chromatographic data from materials important to agriculture, **15**, 357
$HSiCl_3$
Thermolysis mass spectrometry study or the decomposition of $HSiCl_3$, $MeHSiCl_2$ and chlorodisilanes, **28**, 93
Humic acids
Characterization and dynamics of organic compounds in forest humus studied by pyrolysis-gas chromatography/electron impact mass spectrometry and pyrolysis-(high-resolution) field ionization mass spectrometry, **13**, 319
Chemical structure of a soil humic acid as revealed by analytical pyrolysis, **11**, 367
Evidence of lignin residues in humic acids isolated from vermicomposts, **15**, 121
Pyrolysis and soft ionization mass spectrometry of aquatic/terrestrial humic substances and soils, **12**, 149
The effect of various chemical treatments on the pyrolytic pattern of peat humic acid, **25**, 137
Humic compounds
Studies on the composition and formation of soil organic matter in terrestrial soils by wet-chemical methods and pyrolysis-field ionization mass spectrometry, **27**, 169
Humic substances
Pyrolysis derivatization of humic substances I. Pyrolysis of fulvic acids in the presence of tetramethylammonium hydroxide, **28**, 71
Humification
Indications from analytical pyrolysis on the evolution of organic materials in the temperate environment, **11**, 355
Humins
Characterization and dynamics of organic compounds in forest humus studied by pyrolysis-gas chromatography/electron impact mass spectrometry and pyrolysis-(high-resolution) field ionization mass spectrometry, **13**, 319
Humus
Characterization and dynamics of organic compounds in forest humus studied by pyrolysis-gas chromatography/electron impact mass spectrometry and pyrolysis-(high-resolution) field ionization mass spectrometry, **13**, 319
Relevance of humus composition to the physical/mechanical stability of agricultural soils: a study by direct pyrolysis-mass spectrometry, **17**, 275
Hydrated
Formation of praseodymium oxide from the thermal decomposition of hydrated praseodymium acetate and oxalate, **29**, 89
Hydraulic fluids
Evaluation of the thermal decomposition apparatus used for toxicity testing of hydraulic fluids, **23**, 43
Hydrocarbons
A study of chemical transformation of glycerol ether lipids to hydrocarbons by flash and hydrous pyrolysis, **23**, 121
Differentiation of Victorian brown coal lithotypes as revealed by thermally desorbable biomarkers, **20**, 161
Flash pyrolysis of silicon-bound hydrocarbons, **20**, 141
Gas evolution during isothermal pyrolysis of Timahdit oil shale, **21**, 119
Kinetic evaluations of the individual hydrocarbon (C_1-C_4) generation by non-

isothermal source rock pyrolysis, **28**, 121
Low-temperature matrix-isolation infrared spectroscopy - a method to characterize reactive species from low-pressure pyrolysis of hydrocarbons for mechanistic elucidations, **23**, 265
Mathematical model for reduction of coke formation during hydrocarbon pyrolysis on a surface coated with carbonate, **17**, 189
Mechanistic aspects of ionic reactions in flames, **25**, 361
On the mechanism of inhibition-initiation during pyrolysis of hydrocarbon mixtures, **17**, 201
Pyrolysis of methane into higher hydrocarbons on carbon fiber in a thin flat tube of quartz heated by an infrared image furnace, **21**, 95
The indexing of monoglycerol diether lipids by flash pyrolysis-gas chromatography, **24**, 301
The VEBA OEL Technologie pyrolysis, **25**, 301
Thermal desorption as an analytical technique in biomarker analysis of immature coals, **18**, 41
Thermolysis of low density polyethylene catalysed by zeolites, **29**, 45
Vapor grown carbon fibers from pyrolysis of hydrocarbons: modeling of filament growth and poisoning, **26**, 131

Hydrocarbons, tight
Flash pyrolysis for the continuous conversion of reed into hydrocarbons, **13**, 233

Hydrogen
Thermal coupling of methane: influence of hydrogen at 1330 °C. Experimental and simulated results, **29**, 183

Hydrogen donor solvents
Effect of cross-linking on the pyrolysis of diphenylalkanes, **25**, 407

Hydrogen index
Chemometric analysis of pyrolysate compositions: a model for predicting the organic matter type of source rocks using pyrolysis gas chromatography, **20**, 87

Hydroxyanthranilic acid
A microanalytical approach to plant tissue characterization: a comparative study of healthy and fungus infected carnation by pyrolysis-mass spectrometry, **19**, 213

5-Hydroxymethyl-2-methylfuran
Thermolysis of alkylfuryl alcohols, **12**, 11

Hydropyrolysis
Hydrothermal formation of hydroxylated benzenes from furan derivatives, **28**, 245

Hydrothermal degradation
Hydrothermal formation of hydroxylated benzenes from furan derivatives, **28**, 245

Hydrous pyrolysis
A study of chemical transformation of glycerol ether lipids to hydrocarbons by flash and hydrous pyrolysis, **23**, 121
Comparative study of low and high temperature hydrous pyrolysis products of monoglycerol diether lipid from archaebacteria, **29**, 33

Hydroxyamino acids
ESR spectral study of free radical formation during the pyrolysis of hydroxyamino acids, **28**, 157

β-Hydroxybutyrate
Analytical degradation: an approach to the structural analysis of microbial polyesters by different methods, **16**, 239

O-(2-Hydroxyethyl)celluloses
Pyrolysis mechanisms of *O*-(2-hydroxyethyl)celluloses, **25**, 371

Hydroxylated benzenes
Hydrothermal formation of hydroxylated benzenes from furan derivatives, **28**, 245

β-Hydroxyvalerate
Analytical degradation: an approach to the structural analysis of microbial polyesters by different methods, **16**, 239

Ignition zone
Laser pyrolysis of explosives combined with mass spectral studies of the ignition zone, **24**, 163

Illinois No. 6
Matrix isolation-Fourier transform infrared spectroscopy studies of flash pyrolysis of four coal tars, **14**, 99
Matrix isolation-Fourier transform infrared spectroscopy studies of slow pyrolysis processes for four coals, **14**, 115

Illite
Mineral-catalysed transformations of terminal alkenes during pyrolysis, **14**, 191

2,4-Imidazolidinediones
Evidence for the formation of 2,4imidazolidinediones and pyrrolidinol[1,2*a*]-3,6-piperazinediones in human hair pyrolyzate

by pyrolysis-gas chromatography-mass spectrometry-mass spectrometry, **11**, 15
Imidodiphosphate
Pyrolysis of tetraphenyl imidodiphosphate, **23**, 217
In situ combustion
Pyrolysis and combustion kinetics of crude oils, asphaltenes and resins in relation to thermal recovery processes, **20**, 185
In situ FT-IR
Kinetics of the -C=N bond transformation into the conjugated ,C=N- bond in acrylonitrile copolymer using in situ Fourier transform-infrared spectroscopy, **23**, 87
Indices
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis-gas chromatography and Fourier-transform infrared spectroscopy, **21**, 147
Inductively coupled plasma
Electrothermal vaporization and pyrolysis of materials for environmental analysis, **25**, 37
Industrial problems
Temperature-programmed pyrolysis-mass spectrometry (TPP-MS) and pyrolysis-gas chromatography/mass spectrometry (Py-GC/MS)-practical applications to industrial problems, **25**, 317
Inertinite
The characterisation of two Australian bituminous coals and isolated maceral fractions by sequential pyrolysis-gas-chromatography/mass spectrometry, **20**, 151
Infrared emission spectroscopy
Studies of thermal transformations of fulvic acids using Fourier transform-infrared emission spectroscopy, **23**, 73
Infrared image furnace
Pyrolysis of methane into higher hydrocarbons on carbon fiber in a thin flat tube of quartz heated by an infrared image furnace, **21**, 95
Infrared multiphoton dissociation
IR laser-induced pyrolysis of CF_3CHO and CF_3CDO in the presence of oxygen, **18**, 175
Infrared spectroscopy
A gas phase pyrolysis gas chromatography-Fourier transform infrared system for use in thermal decomposition studies of volatile compounds, **13**, 63
Comparison of flash pyrolysis, differential scanning calorimetry, ^{13}C NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cyclcoalkanes. A comparison with very low pressure pyrolysis of alkenes, **21**, 79
Enhancement of evolution profiles in pyrolysis-evolved gas-infrared spectroscopy of polymers, **16**, 143
Investigations on the formation of potassium tetramolybdate via thermal decomposition of a new oxomolybdenum(VI) oxalato complex, **18**, 91
Particle size fraction and downhole depositional trends of a tropical domed peat deposit as determined by pyrolysis GC/FTIR/FID and pyrolysis GC/MS, **18**, 293
Studies on thermal decomposition of nitrocellulose by pyrolysis-gas chromatography, **14**, 163
Study of the thermal decomposition of lanthanum and chromium citrate hydrates, **22**, 187
Thermal degradation aspects of model copolymers based on styrene, maleic anhydride, diethyl maleate and diethyl fumarate, **16**, 221
Unimolecular thermal reactions of C_5 to C_8 alkynes. Low temperature matrix IR spectroscopic and mass spectrometric studies, **16**, 87
Vacuum pyrolysis of cellulose: Fourier transform infrared characterization of solid residues, product distribution and correlations, **19**, 81
Inhibition of coke formation
New results about the mechanism of TLE fouling in steam crackers, **27**, 45
Inhibitor
Pyrolysis-gas chromatography-mass spectrometry of two trimeric lignin model compounds with alkyl-aryl ether structure, **14**, 135
Ink
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393

Inorganic ions
Influence of acid pretreatment (H_2SO_4, HCl, HNO_3) on reaction selectivity in the vacuum pyrolysis of cellulose, **27**, 25
Inorganic salt
Effect of added inorganic salts to a pyrolysis foil on pyrolysis of benzylamine by Curie-point pyrolysis-gas chromatography, **22**, 179
Insoluble carbonaceous material
An investigation of the insoluble carbonaceous material in airborne particulates from vehicular traffic, **14**, 83
Analysis of insoluble carbonaceous materials from airborne particles collected in pristine regions of Colorado, **18**, 189
Intermolecular reactions
Pyrolysis-field ionization mass spectrometry of aliphatic polyesters and their thermal interactions in mixtures, **15**, 197
Interpretation procedure
A method for the interpretation of pyrolysis-mass spectra of polyamides, **23**, 15
Inter-strain comparison
Phenotypic variation as a significant within-strain factor in comparisons of bacteria based on pyrolysis-mass spectrometry, **28**, 29
Ion chromatography
Determination of sulfates in urban air by pyrolysis-gas chromatography with name photometric detection, **20**, 263
Ion trap detection
Analysis of pyrolysis products of lignans using capillary gas chromatography and ion trap detection, **21**, 281
Ion trap mass spectrometry
Characterization of bacteria by oxidative and non-oxidative pyrolysis-gas chromatography/ion trap mass spectrometry, **24**, 199
Characterization of bacteria by quartz tube pyrolysis-gas chromatography/ion trap mass spectrometry, **24**, 23Ionic reactions
Mechanistic aspects of ionic reactions in flames, **25**, 361
Ionomers
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
IR spectroscopy
Low-temperature matrix-isolation infrared spectroscopy - a method to characterize reactive species from low-pressure pyrolysis of hydrocarbons for mechanistic elucidations, **23**, 265
Iron(II)
A thermoanalytic study of metal acetyl-acetonates, **21**, 315
Isobenzofuran
Generation of isobenzofuran derivatives by pyrolysis-gas chromatography/mass spectrometry, **24**, 139
Isobornyl acetate
Laser-powered homogeneous decomposition of isobornyl acetate. Evidence for rearrangement reactions in the gas phase, **14**, 179
Isocyanic acid
Kinetics of isocyanuric acid pyrolysis, **28**, 107
Preparation of cyanuric and isocyanic acids in a fluidized bed reactor, **25**, 311
Isocyanuric acid
Kinetics of isocyanuric acid pyrolysis, **28**, 107
Isoprenoids
Pyrolysis of chlorophyll a after preliminary heating at a moderate temperature: implications for the origin of prist-1-ene on kerogen pyrolysis, **18**, 207
Isothermal decomposition
The use of ESR in studying the reduction process ($Fe^{3+} \rightarrow Fe^{2+}$) during the isothermal decomposition of ferric oxalate hydrate, **27**, 275
Isothermal kinetic behavior
Phenol-formaldehyde resins as a link to the understanding of the isothermal kinetic behavior of geopolymers (kerogens and coals), **19**, 265
Isothermal pyrolysis
Gas evolution during isothermal pyrolysis of Timahdit oil shale, **21**, 119
Isotopes
Comments on "Sulphur Isotope Composition of H_2S Evolved during Nonisothermal Pyrolysis of Sulphur-containing Materials" by H.R. Krouse, R.G.S. Ritchie and R.S. Roche, **14**, 1

Response to Comments by A.K. Burnham on "Sulphur Isotopes Composition of H_2S Evolved during Nonisothermal Pyrolysis of Sulphur-containing Materials" by H.R. Krouse, R G.S. Ritchie and R.S. Roche, **14**, 3
Sulphur isotope composition of H_2S evolved during the non-isothermal pyrolysis of sulphur-containing materials, **12**, 19
Isoprene
Determination of styrene-butadiene and isoprene tire tread rubbers in piled particulate matter, **15**, 227

Japanese red pine
Pyrolysis of arylglycol-β-propylphenyl ether lignin model in the presence of borosilicate glass fibres. I. Pyrolysis reactions of β-ether compounds, **30**, 173
Jet fuel
The pyrolysis reactions and jet fuel potential of a Green River shale oil, **22**, 73

Kaolinite
Mineral-catalysed transformations of terminal alkenes during pyrolysis, **14**, 191
Kerogens
Analysis of confined pyrolysis effluents by thermodesorption-multidimensional gas chromatography, **29**, 137
A review of biomarkers in kerogens as determined by pyrolysis-gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **11**, 93
Characterisation of kerogens, coals and asphaltenes by quantitative pyrolysis-mass spectrometry, **20**, 25
Characterization of the aliphatic nature of kerogens isolated from marine sediments by vacuum pyrolysis, **11**, 109
Comparative study of the isothermal pyrolysis kinetic behaviour of some oil shales and coals, **14**, 49
Flash pyrolysis of silicon-bound hydrocarbons, **20**, 141
Fossil fuels and synthetic polymers: isothermal pyrolysis kinetics as indication of structural resemblance, **14**, 73
Mineral-catalysed transformations of terminal alkenes during pyrolysis, **14**, 191
Organic sulphur compounds produced by flash pyrolysis of Timhadit oil shale, **17**, 217
Phenol-formaldehyde resins as a link to the understanding of the isothermal kinetic behavior of geopolymers (kerogens and coals), **19**, 265
Principal components analysis of quantitative pyrolysis-gas chromatography and organic petrographic data of kerogens, **18**, 277
Pyrolysis of chlorophyll a after preliminary heating at a moderate temperature: implications for the origin of prist-1-ene on kerogen pyrolysis, **18**, 207
Pyrolysis of organic matter in cold-seal pressure autoclaves. Experimental approach and applications, **16**, 103
The decomposition of Posidonia Shale and Green River Shale kerogens using microscale sealed vessel (MSSV) pyrolysis, **20**, 107
The scope of pyrolysis methylation reactions, **20**, 15
KH carbon residues
Pyrolysis of KH carbon residues: a method of further production of fullerenes and specific formation of C_{84}, **29**, 1
Kinetic data
A three-dimensional model for determination of kinetic data from the pyrolysis of beech wood, **25**, 387
Kinetic evaluations
Kinetic evaluations of the individual hydrocarbon (C_1-C_4) generated by nonisothermal source rock pyrolysis, **28**, 121
Kinetic model
Kinetic model of the pyrolysis of polythene in a fluidized bed reactor, **30**, 101
Kinetic models
Thermal cracking of substituted aromatic hydrocarbons. I. Kinetic study of the thermal cracking of i-propylbenzene, **21**, 27
Kinetic parameters
Evolution of individual hydrocarbons (C_1-C_4) by nonisothermal pyrolysis of petroleum source rocks, **22**, 61
Kinetic profile
Investigation of pyrolytically produced condensates of phenol-formaldehyde

resins, in relation to their structure and decomposition mechanism, **22**, 153
Isothermal fluidized-bed studies on the kinetics and pyro-products of linear and branched poly(*p*-phenylene sulfide) and proposed mechanisms, **27**, 131
Preparation of a thiophenol/formaldehyde resin; its structure and the mechanism of its pyrolysis, **28**, 231
Kinetic study
Thermal behavior and mass spectrometry studies of 2-oxazolidinone derivatives, **24**, 291
Thermogravimetric kinetic study of the pyrolysis of almond shells and almond shells impregnated with $CoCl_2$, **21**, 249
Kinetics
An approach to solid state kinetics, **15**, 373
Flash pyrolysis of Greek lignite, **21**, 293
Kinetics of isocyanuric acid pyrolysis, **28**, 107
Kinetics of the thermal decomposition of cellulose in sealed vessels at elevated pressures Effects of the presence of water on the reaction mechanism, **26**, 159
Kinetics of triphenylisocyanurate pyrolysis, **24**, 179
Kinetic studies of the primary pyrolysis of municipal solid waste in a Pyroprobe 1000, **23**, 99
Kinetic study of the flash pyrolysis of almond shells in a fluidized bed reactor at high temperatures, **27**, 24
Kinetics of the -C=N bond transformation into the conjugated C=N- bond in acrylonitrile copolymer using in situ Fourier transform-infrared spectroscopy, **23**, 87
On the mechanism of inhibition-initiation during pyrolysis of hydrocarbon mixtures, **17**, 201
Product composition and kinetics of flash pyrolysis of *Erica Arborea* (biomass), **29**, 73
Solid state pyrolyses. Part 4. Kinetic evaluation of coal pyrolyses: effects of maturation, **26**, 115
Thermal analysis using mass spectrometry: A review, **18**, 1
Thermal simulations of the evolution of carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, II and III, **17**, 329
Kinetics, reaction
Comparative study of the isothermal pyrolysis kinetic behaviour of some oil shales and coals, **14**, 49
Fossil fuels and synthetic polymers: isothermal pyrolysis kinetics as indication of structural resemblance, **14**, 73
Free radicals, kinetics and phase changes in the pyrolysis of eight American coals, **13**, 209
Interpreting isothermal thermogravimetric data of complex reactions: application to cellulose pyrolysis at low temperatures, **15**, 347
Kinetics and mechanism of the thermal degradation of poly-*p*-chloromethylstyrene. Thermogravimetric and gas chromatography-mass spectrometry studies, **13**, 171
Kinetics and mechanism of the vapor phase pyrolysis of 1,3-dioxolane in steam, **12**, 223
Kinetics of pyrolysis of solid samples, **11**, 65
Mechanism and kinetics of thermolysis of ethers modelling the oxygen-methylene 'bridge' bonds in coal organic matter, **16**, 57
Polymer pyrolysis mechanisms: experimental approaches for investigating them, **11**, 55
Pyrolysis kinetics of lignocellulosic materials by multistage isothermal thermogravimetry, **13**, 123
Pyrolysis of α-carbonyl-substituted cycloalkyl phenyl sulphoxides, **12**, 257
Pyrolysis-mass spectrometric investigations of the mechanistic and kinetic aspects of thermal degradation of phenol-formaldehyde polycondensates, **12**, 265
Study of kinetic models for the pyrolysis reaction of propane, **13**, 183
The effects of heat and mass transport on the results of thermal decomposition studies Part 1. The three reactions of calcium oxalate monohydrate, **11**, 71
Kiviter Process
Pyrolysis of "Fusen", **25**, 285
Klason lignin
Flash pyrolysis of Klason lignin in a Pyroprobe 1000, **27**, 221
Molecular-beam mass-spectrometric analysis of lignocellulosic materials. I.

Herbaceous biomass, **30**, 125
Pyrolysis of lignin biomass-novolac resin for the production of polymeric carbon adsorbents, **26**, 37
Klason procedure
Characterization of tobacco lignin preparations by Curie-point pyrolysis-mass spectrometry and Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry, **15**, 97
Kraft pulps
Quantification of lignin and carbohydrates in kraft pulps using analytical pyrolysis and multivariate data analysis, **25**, 209
Kuckersite
Thermal simulations of the evolution of carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, II and III, **17**, 329

Labelling, ^{14}C
Slow gas-phase oxidation of diethylacetal, **16**, 75
Lactose
Thermal degradation of different crystalline forms of lactose, **12**, 31
Lactose hydrate
Thermal degradation of different crystalline forms of lactose, **12**, 31
Lamina
Characterization of tobacco lignin preparations by Curie-point pyrolysis-mass spectrometry and Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry, **15**, 97
Micro-analytical investigations on lignin in enzyme-digested tobacco lamina and midrib using pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography/mass spectrometry, **19**, 153
Laminarin
Initial application of desorption chemical ionization-pyrolysis-tandem mass spectrometry to structural analysis of carbohydrates, **15**, 85
Langmuir model
Mathematical model for reduction of coke formation during hydrocarbon pyrolysis on a surface coated with carbonate, **17**, 189
Lanthanum citrate
Study of the thermal decomposition of lanthanum and chromium citrate hydrates, **22**, 187
Laser
Laser pyrolysis of explosives combined with mass spectral studies of the ignition zone, **24**, 163
Laser desorption
Laser desorption multiphoton ionization mass spectrometry, **20**, 47
Laser heating
High speed, two-wavelength radiation thermometry of single micro particles during CO_2 laser heating, **28**, 55
Laser induced thermolysis
Efficient gas phase polymer deposition by infrared laser-photosensitized decomposition of 4-silaspiro[3 4]octane, **14**, 345
Laser microprobe mass analysis
An analytical investigation of the thermal degradation of a cation-exchange resin - Part 1, **16**, 255
An analytical investigation of the thermal degradation of a cation-exchange resin - Part 2, **16**, 269
Laser radiation
Laser pyrolysis-gas chromatography/mass spectrometry of two synthetic organic polymers, **21**, 145
Laser-induced decomposition
Chemical vapor deposition of polycarbosilane by laser-induced decomposition of silacyclohexane, **24**, 325
Laser powered homogeneous decomposition of vinyl acetate, **26**, 21
Laser-induced decomposition of trimethyl methoxy)silane, hexamethyldisiloxane and tetramethoxysilane for production of silicon-containing coatings, **18**, 71
Laser-mass spectrometry
The scope of laser-mass spectrometry and other mass spectrometric techniques for studying engine deposits and exhaust emissions, **26**, 1
Leaf tissue
Analysis of leaf and fine root litter from a subtropical montane rain forest by pyrolysis-gas chromatography/mass spectrometry, **27**, 1
Levoglucosan
Curie-point pyrolysis-capillary gas chromatography-high-resolution mass spectrometry of microcrystalline cellulose, **14**, 237

Evidence for oligomers in pyrolysates of microcrystalline cellulose, **15**, 71
Influence of acid pretreatment (H_2SO_4, HCl, HNO_3) on reaction selectivity in the vacuum pyrolysis of cellulose, **27**, 25
Kinetics and mechanism of the vapor phase pyrolysis of 1,3-dioxolane in steam, **12**, 223
On the presence of anhydro-oligosaccharides in the sirups from the fast pyrolysis of cellulose, **12**, 39
Vacuum pyrolysis of cellulose: Fourier transform infrared characterization of solid residues, product distribution and correlations, **19**, 81
Library
Library of pyrolysis-gas chromatography data for synthetic polymers, **15**, 209
Light stabilisers
The scope of pyrolysis methylation reactions, **20**, 15
Lignans
Analysis of pyrolysis products of lignans using capillary gas chromatography and ion trap detection, **21**, 281
Lignin
A microanalytical approach to plant tissue characterization: a comparative study of healthy and fungus infected carnation by pyrolysis-mass spectrometry, **19**, 213
Analysis of beech wood samples, its milled wood lignin and polysaccharide fractions by platinum filament pyrolysis-mass spectrometry, **17**, 97
Analysis of lignin by pyrolysis-gas chromatography. I. Effect of inorganic substances on guaiacol-derivative yield from softwoods and their lignins, **18**, 59
Analytical pyrolysis and environmental research, **15**, 3
Characterization by pyrolysis-gas chromatography of wheat straw fermented with white rot fungus *Stropharia rugosoannulata*, **15**, 129
Characterisation of beech wood and its holocellulose and xylan fractions by pyrolysis-gas chromatography-mass spectrometry, **11**, 417
Characterization of chemical and mechanical pulps by pyrolysis-gas chromatography/ mass spectrometry, **19**, 139
Characterization of lignin and carbohydrates dissolved in groundwood pulping by pyrolysis-gas chromatography/mass spectrometry, **17**, 305
Chemical characterization of recent and buried woods by analytical pyrolysis. Comparison of pyrolysis data with ^{13}C NMR and wet chemical data, **11**, 437
Characterization of the solid residues of vacuum pyrolysis of *Populus tremuloides*, **14**, 281
Characterization of tobacco lignin by analytical pyrolysis and Fourier transform-infrared spectroscopy, **22**, 239
Characterization of tobacco lignin preparations by Curie-point pyrolysis-mass spectrometry and Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry, **15**, 97
Evidence of lignin residues in humic acids isolated from vermicomposts, **15**, 121
First chemical events in pyrolysis of wood, **13**, 221
Lignin derived oils from the fast pyrolysis of poplar wood, **12**, 51
Micro-analytical investigations on lignin in enzyme-digested tobacco lamina and midrib using pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography/ mass spectrometry, **19**, 153
Production of olefins from flash pyrolysis of cellulose-containing material, **17**, 47
Pyrolysis of arylglycol-β-propylphenyl ether lignin model in the presence of borosilicate glass fibres. I. Pyrolysis reactions of β-ether compounds, **30**, 173
Pyrolysis-gas chromatography/mass spectrometry of wheat straw fractions obtained by alkaline treatments used in pulping processes, **27**, 57
Quantification of lignin and carbohydrates in kraft pulps using analytical pyrolysis and multivariate data analysis, **25**, 209
Solid weight loss in the thermal decomposition of cellulose and pine sawdust, **24**, 257
Structural characterization of lignin polymers by temperature-resolved in-source pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography/ mass spectrometry, **25**, 149
Studies on isolated lignins and lignins in

woody materials by pyrolysis-gas chromatography-mass spectrometry and off-line pyrolysis-gas chromatography with name ionization detection, **11**, 403
The effect of cations on the thermal decomposition of lignins, **25**, 185
Thermal characterization analysis of milkweed floss, **24**, 147
Thermolytic decomposition of coniferyl alcohol, **23**, 195
Volatile products of oxidative pyrolysis of wood: influence of metal ions, **17**, 261
Lignin assays
Use of pyrolysis-gas chromatography/mass spectrometry in the study of lignin assays, **24**, 243
Lignin determination
Monitoring of chemical changes in white-rot degraded beech wood by pyrolysis-gas chromatography and Fourier-transform infrared spectroscopy, **21**, 147
Lignin model compounds
Pyrolysis-gas chromatography-mass spectrometry of two trimeric lignin model compounds with alkyl-aryl ether structure, **14**, 135
Lignite
Flash pyrolysis of Greek lignite, **21**, 293
Pyrolysis of Seyitömer oil shale and lignite under different processing conditions, **29**, 25
Thermal simulations of the evolution of carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, II and III, **17**, 329
Lignocellulose
Analysis of leaf and fine root litter from a subtropical montane rain forest by pyrolysis-gas chromatography/mass spectrometry, **27**, 1
Pyrolysis kinetics of lignocellulosic materials by multistage isothermal thermogravimetry, **13**, 123
Studies on isolated lignins and lignins in woody materials by pyrolysis-gas chromatography-mass spectrometry and off-line pyrolysis-gas chromatography with flame ionization detection, **11**, 403
Lignocellulosic material
Effects of an intense thermal flux on a lignocellulosic material, **21**, 305
Lignocellulosics
Pyrolysis-gas chromatography/mass spectrometry of lignocellulosics in forages and by-products, **19**, 203
Lignosulphonates
Qualitative analysis of chlorolignins and lignosulphonates in pulp mill effluents entering the river Rhine using pyrolysis-mass spectrometry and pyrolysis-gas chromatography/mass spectrometry, **20**, 275
The effect of cations on the thermal decomposition of lignins, **25**, 185
Linear poly(*p*-phenylene sulfide)
Isothermal fluidized-bed studies on the kinetics and pyro-products of linear and branched poly(*p*-phenylene suifide) and proposed mechanisms, **27**, 131
Linseed oil
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393
Liquid crystals
Gas chromatographic and capillary gas chromatographic-mass spectrometric analysis of thermal decomposition products of liquid crystal polymers, **11**, 233
Liquids
An investigation of the factors controlling the pyrolysis product yield of Greek wood bio-mass in a fluidized bed, **18**, 127
Listeria monocytogenes
The analysis of *Listeria monocytogenes* by pyrolysis-mass spectrometry, **22**, 29
Lithotypes
Differentiation of Victorian brown coal lithotypes as revealed by thermally desorbable biomarkers, **20**, 161
Litter
Analytical pyrolysis and environmental research, **15**, 3
Litter decomposition
Analysis of leaf and fine root litter from a subtropical montane rain forest by pyrolysis-gas chromatography/mass spectrometry, **27**, 1
Long-chain structure
Investigation of pyrolytically produced condensates of phenol-formaldehyde resins, in relation to their structure and decomposition mechanism, **22**, 153
Low pressure
Thermal rearrangements. XXI. Very low pressure pyrolysis of 3-methylene-5-trimethylsilyl-1,4-pentadiyne, **29**, 57

Low-energy electron impact mass spectrometry
Chemical characterization of Hungarian brown coals by Curie-point pyrolysis-low-energy electron impact mass spectrometry and multivariate analysis and by Curie-point pyrolysis-gas chromatography-photoionization mass spectrometry, **11**, 125
Low-temperature matrix isolation
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, **21**, 79
LPCVD
Thermal dissociation of disilane: quadrupole mass spectrometry investigation, **24**, 51
LPG
Thermal cracking of *n*-butane and a light hydrocarbon mixture, **14**, 37
Lubricants
Temperature programmed pyrolysis-mass spectrometry, **11**, 3

Macauba fruit (*Acrocomia sclerocarpa M.*)
Study of calcium soap pyrolysates derived from Macauba fruit (*Acrocomia sclerocarpa M.*). Derivatization and analysis by GC/MS and CI-MS, **29**, 153
Macerals
Flash pyrolysis of coal, coal maceral, and coal-derived pyrite with on-line characterization of volatile sulfur compounds, **13**, 199
Macromolecules
Thermal decomposition of segments with two aromatic rings in thermostable macromolecules, **11**, 245
Maillard reaction
Pyrolysis-gas chromatography/mass spectrometry in the characterization of glycated albumin, **24**, 87
Maillard-products
Pyrolysis of coloured low molecular weight Maillard-products, **27**, 145
Maintenance heating
Some empirical considerations on the pyrolysis-gas chromatographic conditions required - to obtain characteristic and reliable high-resolution pyrograms for polymer samples, **11**, 181
Maleic anhydride
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone, **11**, 277
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone. Part II. The fate of the styrene moiety, **13**, 305
Evaluation of compositional distributions of styrene-maleic anhydride copolymers by thin-layer chromatography/pyrolysis-gas chromatography, **16**, 159
Thermal degradation aspects of model copolymers based on styrene, maleic anhydride, diethyl maleate and diethyl fumarate, **16**, 221
Maltosan
On the presence of anhydro-oligo-saccharides in the sirups from the fast pyrolysis of cellulose, **12**, 39
Mammalian cells
A pyrolysis-gas chromatographic/mass spectrometric method for measuring the DNA content of cultured mammalian cells, **24**, 107
Manganese(II) malonate dihydrate
Non-isothermal dehydration and decomposition ofmanganese(II) malonate dihydrate, **30**, 59
Mass spectra
Analysis of pyrolysis products of lignans using capillary gas chromatography and ion trap detection, **21**, 281
Mass spectrometry
A comparative study of three different pyrolysis methods used to characterise a biopolymer isolated from fossil and extant dammar resins, **20**, 125
A mass spectrometry study of the gas pyrolysis of PH_3 and a PH_3/Si_2H_6 mixture, **26**, 27
A method for the interpretation of pyrolysis-mass spectra of polyamides, **23**, 15
A microanalytical approach to plant tissue characterization: a comparative study of healthy and fungus infected carnation by pyrolysis-mass spectrometry, **19**, 213
A new pyrolyzer for laser pyrolysis-gas

chromatography/mass spectrometry experiments, **23**, 165
A review of biomarkers in kerogens as determined by pyrolysis-gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **11**, 93
Amino acid sequence information in proteins and complex proteinaceous material revealed by pyrolysis-capillary gas chromatography- low and high resolution mass spectrometry, **11**, 313
An analytical investigation of the thermal degradation of a cation-exchange resin - Part 1, **16**, 255
An analytical investigation of the thermal degradation of a cation-exchange resin - Part 2, **16**, 269
An investigation of the insoluble carbonaceous material in airborne particulates from vehicular traffic, **14**, 83
Analysis of beech wood samples, its milled wood lignin and polysaccharide fractions by platinum filament pyrolysis-mass spectrometry, **17**, 97
Analysis of caramel colours. Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry and simulation of pyrolysis-mass spectrometry, **15**, 159
Analysis of 2,6-diaryl-3,7-dioxabicyclo-[3.3.0]0ctanes and dibenzylbutyrolactones by pyrolysis-gas chromatography/mass spectrometry, **23**, 135
Analysis of insoluble carbonaceous materials from airborne particles collected in pristine regions of Colorado, **18**, 189
Analysis of polymers by mass spectrometry. Metastable mapping of transitions from pyrolysis products of an aromatic polyamide, **12**, 3
Analytical degradation: an approach to the structural analysis of microbial polyesters by different methods, **16**, 239
Analytical pyrolysis as a tool for the characterization of organic substances in artistic and archaeological objects, **20**, 253
Applications of analytical pyrolysis to the study of stony cultural properties, **20**, 239
2-Butenoic acid. a chemical marker for poly-β-hydroxybutyrate identified by pyrolysis gas chromatography/mass spectrometry in analyses of whole microbial cells, **19**, 237
Carbohydrate pyrolysis. I. A continuous mass spectrometric method for the analysis of the resulting gaseous mixture, **11**, 341
Characterization and dynamics of organic compounds in forest humus studied by pyrolysis-gas chromatography/electron impact mass spectrometry and pyrolysis-(high-resolution) field ionization mass spectrometry, **13**, 319
Characterization of *Agaricales* spores by pyrolysis-capillary gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **15**, 137
Characterisation of beech wood and its holocellulose and xylan fractions by pyrolysis-gas chromatography-mass spectrometry, **11**, 417
Characterisation of kerogens, coals and asphaltenes by quantitative pyrolysis- mass spectrometry, **20**, 25
Characterization of lignin and carbohydrates dissolved in groundwood pulping by pyrolysis-gas chromatography/ mass spectrometry, **17**, 305
Characterisation of oligomers and sugar ring-cleavage products in the pyrolysate of cellulose, **19**, 65
Characterization of refuse-derived fuel by pyrolysis-gas chromatography and gas chromatography/mass spectrometry, **17**, 169
Characterisation of subfossil *Sphagnum* leaves, rootlets of Ericaceae and their peat by pyrolysis-high-resolution gas chromatography-mass spectrometry, **11**, 377
Characterization of the saccharide composition of heteropolysaccharides by pyrolysis-capillary gas chromatography-mass spectrometry, **11**, 297
Characterization of thermolysis products of cuticular wax compounds of green tobacco leaf, **17**, 25
Characterization of tobacco lignin preparations by Curie-point pyrolysis-mass spectrometry and Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry, **15**, 97
Characterization of used tire vacuum pyrolysis oil: nitrogenous compounds from the naphtha fraction, **22**, 205

Chemical characterization of recent and buried woods by analytical pyrolysis.
Chemical structure of a soil humic acid as revealed by analytical pyrolysis, **11**, 367
Comparison of flash pyrolysis differential scanning calorimetry, ^{13}C NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287
Comparison of pyrolysis data with ^{13}C NMR and wet chemical data, **11**, 437
Composition and microstructure of butadiene-isoprene copolymers from pyrolysis-gas chromatographic/mass spectrometric data, **23**, 33
Compositional analysis of epoxy matrices of carbon fibre composites by pyrolysis-gas chromatography/mass spectrometry, **24**, 75
Curie-point pyrolysis and gas chromatography/mass spectrometry of 5,5'-oxydimethylenebis(2-furfural), **17**, 91
Curie-point pyrolysis atmospheric pressure chemical ionization mass spectrometry as a probe on the effect of sodium chloride on biopolymers, **13**, 77
Curie-point pyrolysis-capillary gas chromatography-high-resolution mass spectrometry of microcrystalline cellulose, **14**, 237
Curie-point pyrolysis-capillary gas chromatography-mass spectrometry of polyhydroxyalkylpyrazines, **13**, 191
Degradation products of polymer components Part I. Toxicological aspects of automobile fires, **16**, 173
Development of a pyrolysis-gas chromatographic-Fourier transform infrared spectroscopic technique for the study of woody peats, **14**, 295
Differentiation of block, random and block-random ethylene/vinylcyclohexane copolymers by pyrolysis-gas chromatography/mass spectrometry, **26**, 185
Differentiation of leafy spurge (*Euphorbia esula* L) accessions based on chemical constitution using Curie-point pyrolysis-mass spectrometry-pattern recognition, **17**, 5
Direct analysis of bacterial glycerides by Curie-point pyrolysis-mass spectrometry, **23**, 1
Discrimination and clustering of streptococci by pyrolysis gas chromatography/mass spectrometry and multivariate data analysis, **18**, 97
Evidence of lignin residues in humic acids isolated from vermicomposts, **15**, 121
Evidence for oligomers in pyrolysates of microcrystalline cellulose, **15**, 71
Flash pyrolysis of silicon-bound hydrocarbons, **20**, 141
Flash vacuum pyrolysis of 1-benzoylpyrazole, **16**, 165
Gas chromatographic and capillary gas chromatographic-mass spectrometric analysis of thermal decomposition products of liquid crystal polymers, **11**, 233
Gas-phase decomposition of 1-trifluoro-methoxy-1,1,2,2-tetrafluoro-2-iodoethane, **13**, 151
Identification of polar monomers in poly acrylate dispersions with pyrolysis-gas chromatography/mass spectrometry, **19**, 279
Indications from analytical pyrolysis on the evolution of organic materials in the temperate environment, **11**, 355
Influence of pyrolytic techniques on mass spectra of biopolymers with chemical ionization at atmospheric pressure, **13**, 243
Kinetics and mechanism of the thermal degradation of poly-*p*-chloromethyl-styrene. Thermogravimetric and gas chromatography-mass spectrometry studies, **13**, 171
Laboratory scale pyrolysis experiments using halogenated benzenes, **17**, 357
Laser pyrolysis of explosives combined with mass spectral studies of the ignition zone, **24**, 163
Laser pyrolysis-gas chromatography/mass spectrometry of two synthetic organic polymers, **21**, 195
Micro-analytical investigations on lignin in enzyme-digested tobacco lamina and midrib using pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography/ mass spectrometry, **19**, 153
Molecular archaeology: analysis of charred (food) remains from prehistoric

pottery by pyrolysis-gas chromatography/mass spectrometry, **20**, 197
Particle size fraction and downhole depositional trends of a tropical domed peat deposit as determined by pyrolysis GC/FTIR/FID and pyrolysis GC/MS, **18**, 293
Pyrolysis and soft ionization mass spectrometry of aquatic/terrestrial humic substances and soils, **12**, 149
Pyrolysis behaviour of a styrene-ethylene (styrene-hydrogenated butadiene) copolymer, **15**, 261
Pyrolysis of tetraphenyl imidodiphosphate, **23**, 217
Pyrolysis of various furan model compounds, **19**, 131
Pyrolysis of various organosilazanes used as single precursor of SiNXCy: H films in OMCVD process, **17**, 67
Pyrolysis-direct chemical ionization mass spectrometry of some biopolymers in the positive and negative ionization mode, **15**, 55
Pyrolysis-field ionization mass spectrometry of aliphatic polyesters and their thermal interactions in mixtures, **15**, 197
Pyrolysis-gas chromatographic/mass spectrometric behaviour of polyvinylcyclohexane and vinylcyclohexane-styrene copolymers, **17**, 291
Pyrolysis-gas chromatography/mass spectrometry and electron impact-, fast atom bombardment-mass spectrometry of sulfonylureas, **21**, 239
Pyrolysis-gas chromatography/mass spectrometry and pyrolysis-gas chromatography/Fourier transform infrared/flame ionization detection studies of particle size fractions of woody peat, **16**, 5
Pyrolysis-gas chromatography/mass spectrometry identification of styrene cross-linked polyester and vinyl ester resins, **22**, 113
Pyrolysis-gas chromatography/mass spectrometry of lignocellulosics in forages and by-products, **19**, 203
Pyrolysis-mass spectrometric investigations of the mechanistic and kinetic aspects of thermal degradation of phenol-formaldehyde polycondensates, **12**, 265
Pyrolysis-mass spectrometry of copolymers of 2-vinylnaphthalene with methylacrylate and methylmaleate, **13**, 161
Pyrolysis-mass spectrometry of natural gums, resins, and waxes and its use for detecting such materials in ancient Egyptian mummy cases (cartonnages), **11**, 195
Pyrolysis-mass spectrometry studies of adhesives, **11**, 213
Pyrolysis of poly-4-vinylpyridine: degradation mechanism and structural analysis, **12**, 135
Pyrolysis of tetralin at 450 °C, **14**, 17
Pyrolysis-direct chemical ionization mass spectrometry of the dimorphic fungus *Candida albicans* and the pleomorphic fungus *Ophiostoma ulmi*, **14**, 309
Pyrolysis-gas chromatography-mass spectrometry of two trimeric lignin model compounds with alkyl-aryl ether structure, **14**, 135
Pyrolysis-tandem mass spectrometry of bacteria, **14**, 7
Qualitative analysis of chlorolignins and lignosulphonates in pulp mill effluents entering the river Rhine using pyrolysis-mass spectrometry and pyrolysis-gas chromatography/mass spectrometry, **20**, 275
Rapid characterization of *Salmonella* strains with direct chemical ionization pyrolysis, **11**, 329
Relevance of humus composition to the physical/mechanical stability of agricultural soils: a study by direct pyrolysis-mass spectrometry, **17**, 275
Scope and limitations of several pyrolysis methods in the structural elucidation of a macromolecular plant constituent in the leaf cuticle of *Agave americana* L., **15**, 29
Sequence of phenolic units in phenol-formaldehyde polycondensates studied by pyrolysis-gas chromatography/mass spectrometry, **19**, 251
Studies on isolated lignins and lignins in woody materials by pyrolysis-gas chromatography-mass spectrometry and off-line pyrolysis-gas chromatography with flame ionization detection, **11**, 403
Studies on the flame-retardant properties

of transition metal complexes of cellulose ammonium phosphate, **11**, 465
Studies on the thermal degradation of butyl rubber, **27**, 207
Studies on the thermal degradation of polyphenyl-as-triazines by high resolution pyrolysis gas chromatography/mass spectrometry and thermogravimetry, **26**, 145
Synthesis and pyrolysis of organometallic precursors of Si-C-Ge alloy amorphous thin films, **22**, 95
Temperature programmed pyrolysis-mass spectrometry, **11**, 3
The analysis of *Listeria monocytogenes* by pyrolysis-mass spectrometry, **22**, 29
The effects of heat and mass transport on the results of thermal decomposition studies. Part 1. The three reactions of calcium oxalate monohydrate, **11**, 71
The potential of pyrolysis-gas chromatography/mass spectrometry in the recognition of ancient painting media, **24**, 227
The potential of pyrolysis-mass spectrometry for fermentation quality control, **11**, 549
The use of pyrolysis-gas chromatography/ mass spectroscopy in the analysis of cured polyfunctional epoxy resins, **21**, 207
Thermal analysis using mass spectrometry: A review, **18**, 1
Thermal behavior and mass spectrometry studies of 2-oxazolidinone derivatives, **24**, 291
Thermal decomposition of aryl-alicyclic polyimides studied by thermogravimetry/ mass spectrometry and pyrolysis-gas chromatography/mass spectrometry, **23**, 229
Thermal decomposition of polymeric silanes, **15**, 175
Thermal decomposition of polystyrene: volatile compounds from large-scale pyrolysis, **18**, 143
Thermal degradation aspects of model copolymers based on styrene, maleic anhydride, diethyl maleate and diethyl fumarate, **16**, 221
Thermal dissociation of disilane: quadrupole mass spectrometry investigation, **24**, 51
The thermal degradation of poly-(aryl-ether-ether-ketone) (PEEK) as monitored by pyrolysis-GC/MS and TG/MS, **18**, 163
Thermal reactions of decalin. II. A mass spectrometric study, **18**, 33
Time-resolved analytical pyrolysis studies of nitramine decomposition with a triple quadrupole mass spectrometer system, **12**, 83
Unimolecular thermal reactions of C_5 to C_8 alkynes. Low temperature matrix IR spectroscopic and mass spectrometric studies, **16**, 87
Vacuum pyrolysis of CCl_3COCl: matrix-IR and mass spectrometric studies of the intermediates, **13**, 135
Mass spectrometry, tandem
Evidence for the formation of 2,4-imidazolidinediones and pyrrolidino-[1,2*a*]-3,6-piperazinediones in human hair pyrolyzate by pyrolysis-gas chromatography-mass spectrometry-mass spectrometry, **11**, 15
Mass transfer
The effects of heat and mass transport on the results of thermal decomposition studies. Part 1. The three reactions of calcium oxalate monohydrate, **11**, 71
Mastic
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393
Mathematical model
Mathematical model for reduction of coke formation during hydrocarbon pyrolysis on a surface coated with carbonate, **17**, 189
Matrix isolation
Low-temperature matrix-isolation infrared spectroscopy - a method to characterize reactive species from low-pressure pyrolysis of hydrocarbons for mechanistic elucidations, **23**, 265
Matrix-IR spectroscopy
Vacuum pyrolysis of CCl_3COCl: matrix-IR and mass spectrometric studies of the intermediates, **13**, 135
Maturation
Solid state pyrolyses Part 4. Kinetic evaluation of coal pyrolyses: effects of maturation, **26**, 115
Maturity
Evolution of individual hydrocarbons (C_1- C_4) by nonisothermal pyrolysis of

petroleum source rocks, **22**, 61
Mechanical soil strength
Relevance of humus composition to the physical/mechanical stability of agricultural soils: a study by direct pyrolysis-mass spectrometry, **17**, 275
Mechanistic model
Mechanistic modeling of the pyrolysis of *n*-hexane, **19**, 29
$MeHSiCl_2$
Thermolysis mass spectrometry study of the decomposition of $HSiCl_3$, $MeHSiCl_2$ and chlorodisilanes, **28**, 93
Melanins
A new pyrolyzer for laser pyrolysis-gas chromatography/mass spectrometry experiments, **23**, 165
Metal exchange
Quantitative analysis of the major saccharides in sulfite-treated wood pulps by pyrolysis-gas chromatography: the effect of metal ions, **23**, 153
Metal ions
Influence of metal ions on volatile products of pyrolysis of wood, **16**, 117
Metal powder
Curie-point pyrolysis-gas chromatography of aliphatic amines in the presence of metal powder and inorganic salt, **17**, 181
Metastable mapping
Analysis of polymers by mass spectrometry. Metastable mapping of transitions from pyrolysis products of an aromatic polyamide, **12**, 3
Methacrylate isomers
Acrylic compound characterization by oxidative pyrolysis, atmospheric pressure chemical ionization-tandem mass spectrometry, **17**, 127
Meth)acrylate polymers
Identification of polar monomers in polyacrylate dispersions with pyrolysis-gas chromatography/mass spectrometry, **19**, 279
Methacrylate salts
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
Methane
Pyrolysis of methane into higher hydrocarbons on carbon fiber in a thin flat tube of quartz heated by an infrared image furnace, **21**, 95
Thermal coupling of methane: influence of hydrogen at 1330 °C. Experimental and simulated results, **29**, 183
Methodology
Analytical pyrolysis and environmental research, **15**, 3
Methyl methacrylate
Determination of reactive comonomers and/or amino resins in acrylic copolymers used in textile industry, by pyrolysis-gas chromatography-mass spectrometry, **11**, 227
Methylated deutero-alditols
Characterisation of oligomers and sugar ring-cleavage products in the pyrolysate of cellulose, **19**, 65
Methylation
A pyrolysis-derivatisation-gas chromatography technique for the structural elucidation of some synthetic polymers, **16**, 323
Structure determination of alkyd resins by simultaneous pyrolysis methylation, **18**, 233
3-Methylene-5-trimethylsilyl-1,4-pentadiyne
Thermal rearrangements. XXI. Very low pressure pyrolysis of 3-methylene-5-trimethylsilyl-1,4-pentadiyne, **29**, 57
Methylketones
Characterisation of subfossil *Sphagnum* leaves, rootlets of Ericaceae and their peat by pyrolysis-high-resolution gas chromatography-mass spectrometry, **11**, 377
3-Methylpentane
Thermal decomposition of 3-methylpentane and *n*-hexane: reaction mechanism and correlations between structure and formation of light olefins, **12**, 243
Metolachlor
Investigations into the thermal decomposition of selected pesticides, **16**, 205
Metoxuron
Investigations into the thermal decomposition of the pesticides Metoxuron and Chloridazon, **16**, 213
Methylene chloride
Topography and morphology of the carbon deposit obtained by pyrolysis of methylene chloride on a silica gel surface, **13**, 89
Micro-reactor

Advances in pyrolysis in combination with chromatographic and computer techniques, **15**, 383
Study of kinetic models for the pyrolysis reaction of propane, **13**, 183
Microbial epidemiology
Phenotypic variation as a significant within-strain factor in comparisons of bacteria based on pyrolysis-mass spectrometry, **28**, 29
Microbial cells
2-Butenoic acid. a chemical marker for poly-β-hydroxybutyrate identified by pyrolysis-gas chromatography/mass spectrometry in analyses of whole microbial cells, **19**, 237
Microbial polyesters
Analytical degradation: an approach to the structural analysis of microbial polyesters by different methods, **16**, 239
153
Microfurnace pyrolyser
Microfurnace pyrolysis injector for capillary gas chromatography, **18**, 269
Microscale sealed vessel pyrolysis
The decomposition of Posidonia Shale and Green River Shale kerogens using microscale sealed vessel (MSSV) pyrolysis, **20**, 107
Midrib
Characterization of tobacco lignin preparations by Curie-point pyrolysis-mass spectrometry and Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry, **15**, 97
Micro-analytical investigations on lignin in enzyme-digested tobacco lamina and midrib using pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography/ mass spectrometry, **19**,
Middle distillate fuels
The pyrolysis reactions and jet fuel potential of a Green River shale oil, **22**, 73
Milkweed
Thermal characterization analysis of milkweed floss, **24**, 147
Milled wood lignins
Characterization of tobacco lignin by analytical pyrolysis and Fourier transform-infrared spectroscopy, **22**, 239
Mineral impurities
Thermal simulations of the evolution of carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, II and III, **17**, 329
Mixtures
Pyrolysis-field ionization mass spectrometry of aliphatic polyesters and their thermal interactions in mixtures, **15**, 197
Modeling
Vapor grown carbon fibers: modeling of filament length distributions, **28**, 255
Moder
Analytical pyrolysis and environmental research, **15**, 3
Molecular-beam mass spectrometry
Molecular-beam mass-spectrometric analysis of lignocellulosic materials. I. Herbaceous biomass, **30**, 125
Molecular rearrangements
Molecular rearrangements of sulfur compounds. Thermolysis and photolysis of arenesulfonate aryl esters, **29**, 65
Molecular weight
The molecular weight range of pyrolytic oils derived from tyre waste, **29**, 111
Molybdenum(VI) oxalato complex
Investigations on the formation of potassium tetramolybdate via thermal decomposition of a new oxo-molybdenum(VI) oxalato complex, **18**, 91
Molybdenum oxide
Pyrolysis studies of flame retarded plastic systems, **11**, 499
Mono-alkyl glycoles
Pyrolysis of alkoxy ethyl borates, **22**, 197
Monoglycerol diether lipid
Comparative study of low and high temperature hydrous pyrolysis products of monoglycerol diether lipid from archaebacteria, **29**, 33
Monoglycerol diether lipids
The indexing of monoglycerol diether lipids by flash pyrolysis-gas chromatography, **24**, 301
Monomer recovery
Monomer recovery by pyrolysis of poly(methyl methacrylate) (PMMA), **19**, 311
Monomer/dimer ratio
Natural rubber pyrolysis: study of temperature- and thickness-dependence indicates dimer formation mechanism, **19**, 301

Morphology
Microscopic investigations of the surface of carbon-silica adsorbents with consideration of heterogeneity of carbon layer studied by transmission electron microscopy, and its correlation with adsorption data, **14**, 203
Topography and morphology of the carbon deposit obtained by pyrolysis of methylene chloride on a silica gel surface, **13**, 89
Moss
Analytical pyrolysis and environmental research, **15**, 3
Multidimensional gas chromatography
Analysis of confined pyrolysis effluents by thermodesorption-multidimensional gas chromatography, **29**, 137
Multiphoton ionization
Laser desorption multiphoton ionization mass spectrometry, **20**, 47
Multiple cold trap
Development of multiple cold trap pyrolysis, **28**, 167
Multivariate analysis
Chemical characterization of Hungarian brown coals by Curie-point pyrolysis-low-energy electron impact mass spectrometry and multivariate analysis and by
Chemical characterization of leafy spurge (*Euphorbia esula* L.) by Curie-point pyrolysis atmospheric pressure chemical ionization mass spectrometry as a probe on the effect of sodium chloride on biopolymers, **13**, 77
Curie-point pyrolysis-gas chromatography-pattern recognition, **14**, 223
Curie-point pyrolysis-gas chromatography-photoionization mass spectrometry, **11**, 125
Effect of added inorganic salts to a pyrolysis foil on pyrolysis of benzylamine by Curie-point pyrolysis-gas chromatography, **22**, 179
Multivariate data analysis
Discrimination and clustering of streptococci by pyrolysis-gas chromatography/mass spectrometry and multivariate data analysis, **18**, 97
Multivariate statistical procedures
Use of principal component regression to characterize a complex oxidation product mixture, **21**, 1
Mummy cases
Pyrolysis-mass spectrometry of natural gums, resins, and waxes and its use for detecting such materials in ancient Egyptian mummy cases (cartonnages), **11**, 195
Municipal solid waste
Kinetic studies of the primary pyrolysis of municipal solid waste in a Pyroprobe 1000, **23**, 99
Municipal waste
The Siemens Thermal Waste Recycling Process - a modern technology for converting waste into usable products, **27**, 15

Naphthenes
Cracking of decalin and tetralin in the presence of mixtures of *n*-decane and steam at about 810 °C, **11**, 39
Natural resins
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393
Natural rubber
Natural rubber pyrolysis: study of temperature- and thickness-dependence indicates dimer formation mechanism, **19**, 301
Simultaneous determination of natural and styrene-butadiene rubber tire tread particles in atmospheric dusts by pyrolysis-gas chromatography, **16**, 49
The effect of carbon-black filling on the pyrolysis behavior of natural and synthetic rubbers, **29**, 129
Negative ionization
Pyrolysis-direct chemical ionization mass spectrometry of some biopolymers in the positive and negative ionization mode, **15**, 55
Newsprint
Influence of metal ions and of salts on products from pyrolysis of wood: applications to thermochemical processing of newsprint and biomass, **21**, 133
Production of olefins from flash pyrolysis of cellulose-containing material, **17**, 47
Nickel(II) complexes
Spectral and thermal studies on nickel(II) complexes of acenaphthaquinonemono(4-methylquinolinyl)hydrazone, **23**, 63
Nickel acetate tetrahydrate

Non-isothermal decomposition of nickel acetate tetrahydrate, **27**, 109
Nigerian oil sands
Thermal behaviour of Nigerian oil sands in inert and oxidising atmospheres, **21**, 103
Nitramine
Time-resolved analytical pyrolysis studies of nitramine decomposition with a triple quadrupole mass spectrometer system, **12**, 83
Nitric oxide
Pyrolysis-gas chromatography-mass spectrometry of two trimeric lignin model compounds with alkyl-aryl ether structure, **14**, 135
Nitrocellulose
Studies on thermal decomposition of nitrocellulose by pyrolysis-gas chromatography, **14**, 163
Nitrogen bases
Nonaqueous potentiometry for analyses of nitrogen bases from asphaltite and oil shale pyrolysis products, **17**, 227
Nitrogen-selective detection
Pyrolysis-gas chromatographic analyses of organic matter in soils using nitrogen-selective detection, **19**, 193
Nitrogen-selective detector
Trace determination of high molecular weight polyvinylpyrrolidone by pyrolysis-gas chromatography, **17**, 251
Nitrogenous compounds
Characterization of used tire vacuum pyrolysis oil: nitrogenous compounds from the naphtha fraction, **22**, 205
Nomenclature
Pyrolysis nomenclature, **14**, 219
Nonaqueous potentiometry
Nonaqueous potentiometry for analyses of nitrogen bases from asphaltite and oil shale pyrolysis products, **17**, 227
Non-dialysable melanoidin
Pyrolysis-gas chromatography/mass spectrometry and electron impact-, fast atom bombardment-mass spectrometry of sulfonylureas, **21**, 239
Non-enzymatic glycation
Pyrolysis-gas chromatography/mass spectrometry in the characterization of glycated albumin, **24**, 87
Nonisothermal
Kinetic evaluations of the individual hydrocarbon (C_1-C_4) generation by non-isothermal source rock pyrolysis, **28**, 121
Evolution of individual hydrocarbons (C_1-C_4) by nonisothermal pyrolysis of petroleum source rocks, **22**, 61
Norbornene dicarboxylic acids, chlorinated
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone. Part II. The fate of the styrene moiety, **13**, 305
Novolac
High temperature pyrolysis of novolac resin biomass composites, **30**, 161
Novolac resin
Pyrolysis of lignin biomass-novolac resin for the production of polymeric carbon adsorbents, **26**, 37
Nuclear magnetic resonance spectroscopy
An analytical investigation of the thermal degradation of a cation-exchange resin - Part 1, **16**, 255
Comparison of flash pyrolysis, differential scanning calorimetry, ^{13}C NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287
Preparative isolation of oligomers with a terminal anhydrosugar unit by thermal degradation of chitin and cellulose, **17**, 319
Pyrolysis behaviour of a styrene-ethylene (styrene-hydrogenated butadiene) copolymer, **15**, 261

Oak
Sugar cane bagasse as a feedstock for an industrial fast pyrolysis process under development, **12**, 301
Octachlorostyrene
Thermal decomposition of pentachloro-benzene, hexachlorobenzene and octachlorostyrene in air, **14**, 25
Oil potential
Thermal simulations of the evolution of carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, II and III, **17**, 329
Oil shale
A review of biomarkers in kerogens as determined by pyrolysis-gas chromatography and pyrolysis-gas

chromatography-mass spectrometry, **11**, 93
Comparative study of the isothermal pyrolysis kinetic behaviour of some oil shales and coals, **14**, 49
Fossil fuels and synthetic polymers: isothermal pyrolysis kinetics as indication of structural resemblance, **14**, 73
Mineral-catalysed transformations of terminal alkenes during pyrolysis, **14**, 191
Nonaqueous potentiometry for analyses of nitrogen bases from asphaltite and oil shale pyrolysis products, **17**, 227
Organic sulphur compounds produced by flash pyrolysis of Timhadit oil shale, **17**, 217
Pyrolysis of a-carbonyl-substituted cycloalkyl phenyl sulphoxides, **12**, 257
Oil Shale kerogens
Thermal decomposition behavior of oil shale kerogens observed by stepwise pyrolysis-gas chromatography, **24**, 273
Oils
Factors affecting the yields produced from the two-stage pyrolysis of Egyptian bitumen, **17**, 153
Lignin derived oils from the fast pyrolysis of poplar wood, **12**, 51
The scope of pyrolysis methylation reactions, **20**, 15
Olefins
Production of olefins from flash pyrolysis of cellulose-containing material, **17**, 47
Oligonucleotides
Rapid discrimination between closely similar oligonucleotides by pyrolysis-mass spectrometry, **28**, 39
Oligopeptides
An investigation of the pyrolysis of oligopeptides by Curiepoint pyrolysis-tandem mass spectrometry, **30**, 1
Oligosaccharides
On the presence of anhydro-oligo-saccharides in the sirups from the fast pyrolysis of cellulose, **12**, 39
Olive stone biomass
High temperature pyrolysis of novolac resin biomass composites, **30**, 161
Pyrolysis of lignin biomass-novolac resin for the production of polymeric carbon adsorbents, **26**, 37
OMCVD
Pyrolysis of various organosilazanes used as single precursor of SiN_xC_y: H films in OMCVD process, **17**, 67
On-line chromatography
Advances in pyrolysis in combination with chromatographic and computer techniques, **15**, 383
Ophiostoma ulmi
Pyrolysis-direct chemical ionization mass spectrometry of the dimorphic fungus *Candida albicans* and the pleomorphic fungus *Ophiostoma ulmi*, **14**, 309
Organic compounds
Applications of analytical pyrolysis to the study of stony cultural properties, **20**, 239
Organic facies
Principal components analysis of quantitative pyrolysis-gas chromatography and organic petrographic data of kerogens, **18**, 277
Organic food residues
Molecular archaeology: analysis of charred (food) remains from prehistoric pottery by pyrolysis-gas chromatography/mass spectrometry, **20**, 197
Organic matter
Indications from analytical pyrolysis on the evolution of organic materials in the temperate environment, **11**, 355
Pyrolysis-gas chromatographic analyses of organic matter in soils using nitrogen-selective detection, **19**, 193
Organic patinas
Pyrolysis gas chromatographic studies on Egyptian archaeological specimens organic patinas on the "Three Princesses" gold vessel, **20**, 229
Organic polymers
Laser pyrolysis-gas chromatography/mass spectrometry of two synthetic organic polymers, **21**, 195
Organic substances
Analytical pyrolysis as a tool for the characterization of organic substances in artistic and archaeological objects, **20**, 253
Organofunctional groups
An analytical investigation of silane coupling agents on glass fibres, **18**, 261
Organometallic derivatives
Synthesis and pyrolysis of organometallic precursors of Si-C-Ge alloy amorphous thin films, **22**, 95

Organophosphorus compounds
A gas phase pyrolysis gas chromatography-Fourier transform infrared system for use in thermal decomposition studies of volatile compounds, **13**, 63
Thermal decomposition studies of some organophosphorus compounds, **16**, 37
Organosilazanes
Pyrolysis of various organosilazanes used as single precursor of SiN_xC_y: H films in OMCVD process, **17**, 67
Organosilicon film deposition
Laser induced decomposition of 3-pyridinyl(trimethyl)- and 3-pyridinyl-(triethoxy)silane, **28**, 175
2-Oxazolidinone derivatives
Thermal behavior and mass spectrometry studies of 2-oxazolidinone derivatives, **24**, 291
Oxidation
Influence of reservoir rock composition on crude oil pyrolysis and combustion, **27**, 87
Oxidation
Volatile products of oxidative pyrolysis of wood: influence of metal ions, **17**, 261
Oxidative pyrolysis
Acrylic compound characterization by oxidative pyrolysis, atmospheric pressure chemical ionization-tandem mass spectrometry, **17**, 127
Oxidising atmosphere
Thermal behaviour of Nigerian oil sands in inert and oxidising atmospheres, **21**, 103
2-Oxocyclohexyl phenyl phenyl sulphoxide
Pyrolysis of α-carbonyl-substituted cycloalkyl phenyl sulphoxides, **12**, 257
5,5′-Oxydimethylenebis(2-furfural)
Curie-point pyrolysis and gas chromatography/mass spectrometry of 5,5′-oxydimethylenebis(2-furfural), **17**, 91

Paper
Application of analytical pyrolysis to problems in art and archaeology: a review, **15**, 393
Paper products
Characterization of impurities in pulp and paper products using pyrolysis gas chromatography/mass spectrometry including direct methylation, **27**, 73
Paraffins
Cracking of decalin and tetralin in the presence of mixtures of *n*-decane and steam at about 810 °C, **11**, 39
Particle size
Comparison of effects of bed depth and particle size on volatiles produced by slow pyrolysis of coal, **28**, 45
Effect of particle size and temperature on evolution rate of volatiles from coal, **27**, 97
Pattern recognition
Analytical pyrolysis and environmental research, **15**, 3
Differentiation of leafy spurge (*Euphorbia esula* L.) accessions based on chemical constitution using Curie-point pyrolysis-mass spectrometry-pattern recognition, **17**, 5
Pattern recognition studies of Curie-point pyrolysis-gas chromatographic data from materials important to agriculture, **15**, 357
Winter wheat cultivar differentiation by Curie point pyrolysis-gas chromatography-pattern recognition of whole seeds: a feasibility study, **22**, 1
Peat
Analytical pyrolysis and environmental research, **15**, 3
Characterisation of subfossil *sphagnum* leaves, rootlets of Ericaceae and their peat by pyrolysis-high-resolution gas chromatography-mass spectrometry, **11**, 377
Development of a pyrolysis-gas chromatographic-Fourier transform infrared spectroscopic technique for the study of woody peats, **14**, 295
Particle size fraction and downhole depositional trends of a tropical domed peat deposit as determined by pyrolysis GC/FTIR/FID and pyrolysis GC/MS, **18**, 293
Products from the flash pyrolysis of peat and pine bark, **16**, 355
Pyrolysis and combustion of peat and wood as single particles and as a layer, **11**, 149
Pyrolysis of peat studied by thermogravimetry and Fourier transform infrared spectroscopy, **15**, 297
Pyrolysis-gas chromatography/mass spectrometry and pyrolysis-gas chromatography/Fourier transform infrared/flame ionization detection studies

of particle size fractions of woody peat, **16**, 5
Penicllium italicum
Pyrolysis-direet chemical ionization mass spectrometry of some biopolymers in the positive and negative ionization mode, **15**, 55
Pentachlorobenzene
Thermal decomposition of pentachlorobenzene, hexachlorobenzene and octachlorostyrene in air, **14**, 25
Pentachlorophenol
Thermal reaction of pentachlorophenol and its salts, **18**, 341
Pentoses
Characterization of the saccharide composition of heteropolysaccharides by pyrolysis- capillary gas chromatography-mass spectrometry, **11**, 297
Pesticides
Investigations into the thermal decomposition of selected pesticides, **16**, 205
Investigations into the thermal decomposition of the pesticides Metoxuron and Chloridazon, **16**, 213
Petrographic variables
Principal components analysis of quantitative pyrolysis-gas chromatography and organic petrographic data of kerogens, **18**, 277
Petroleum
Applications of pyrolysis in petroleum geochemistry: a bibliography, **13**, 9
Petroleum gases, liquefied
Thermal cracking of *n*-butane and a light hydrocarbon mixture, **14**, 37
Phenacylammonium salts
Dealkylation and rearrangement of phenacylammonium salts in a gas chromatographic injector, **27**, 199
Pharmaceutical analysis
Thermal desorption-tandem mass spectrometry for the detection and identification of formulated products, **16**, 191
Phenanthrene
Electronic structures of models for alkylene aromatic polymers and their pyrolysis products, **17**, 143
Phenol, polymers
Pyrolysis-mass spectrometric investigations of the mechanistic and kinetic aspects of thermal degradation of phenol-formaldehyde polycondensates, **12**, 265
Phenol-formaldehyde
Sequence of phenolic units in phenol-formaldehyde polycondensates studied by pyrolysis-gas chromatography/mass spectrometry, **19**, 251
Phenol-formaldehyde resins (PFRs)
Investigation of pyrolytically produced condensates of phenol-formaldehyde resins, in relation to their structure and decomposition mechanism, **22**, 153
Phenol-formaldehyde resins as a link to the understanding of the isothermal kinetic behavior of geopolymers (kerogens and coals), **19**, 265
Phenolic resins
A pyrolysis-derivatisation-gas chromatography technique for the structural elucidation of some synthetic polymers, **16**, 323
Phenols
An investigation of the factors controlling the pyrolysis product yield of Greek wood biomass in a fluidized bed, **18**, 127
Thermal decomposition of dimethylphenols, 83
Phenotypic variation
Phenotypic variation as a significant within-strain factor in comparisons or bacteria based on pyrolysis-mass spectrometry, **28**, 29
Phenyl alkylamines
Effect of adding metal powder and inorganic salt to a pyrolysis foil on selective pyrolysis of phenyl alkylamines by Curie-point pyrolysis-gas chromatography, **17**, 371
Phenylisocyanate
Kinetics of triphenylisocyanurate pyrolysis, **24**, 179
Phosphine
A mass spectrometry study of the gas pyrolysis of PH_3 and a PH_3/Si_2H_6 mixture, **26**, 27
Photodegradation
Photodegradation and photo-oxidation of synthetic polymers, **15**, 237
Photoionization mass spectrometry
Chemical characterization of Hungarian brown coals by Curie-point pyrolysis-low-energy electron impact mass spectrometry and multivariate analysis and by Curie-point pyrolysis-gas chromatography-

photoionization mass spectrometry, **11**, 125
Photolysis
Gas-phase decomposition of 1-trifluoro-methoxy-1,1,2,2-tetrafluoro-2-iodoethane, **13**, 151
Molecular rearrangements of sulfur compounds. Thermolysis and photolysis of arenesulfonate aryl esters, **29**, 65
Photo-oxidation
Photodegradation and photo-oxidation of synthetic polymers, **15**, 237
Pine bark
Sugar cane bagasse as a feedstock for an industrial fast pyrolysis process under development, **12**, 301
Pine sawdust
Influence of the heating rate on the temperature profiles and on the conversion rate of powdery cellulose and pine sawdust, **30**, 145
Solid weight loss in the thermal decomposition of cellulose and pine sawdust, **24**, 257
2,5-Piperazinediones
Evidence for the formation of 2,4-imidazolidinediones and pyrrolidino-[1,2*a*]-3,6-piperazinediones in human hair pyrolyzate by pyrolysis-gas chromatography-mass spectrometry-mass spectrometry, **11**, 15
3,6-Piperazinediones, pyrrolidino[1,2*a*]-
Evidence for the formation of 2,4-imid-azolidinediones and pyrrolidino[l,2*a*]-3,6-piperazinediones in human hair pyrolyzate by pyrolysis-gas chromatography-mass spectrometry-mass spectrometry, **11**, 15
Pitch based carbon fiber
Pyrolysis of methane into higher hydrocarbons on carbon fiber in a thin flat tube of quartz heated by an infrared image furnace, **21**, 95
Pittsburgh bituminous
Matrix isolation-Fourier transform infrared spectroscopy studies of flash pyrolysis of four coal tars, **14**, 99
Matrix isolation-Fourier transform infrared spectroscopy studies of slow pyrolysis processes for four coals, **14**, 115
Plant litter
Studies on the composition and formation of soil organic matter in terrestrial soils by wet-chemical methods and pyrolysis-field ionization mass spectrometry, **27**, 169
Plastic wastes
Thermolysis of low density polyethylene catalysed by zeolites, **29**, 45
Plastics
An exploratory study of the processing of plastics, by means of pyrolysis, with the emphasis on PVC/aluminum combinations, **20**, 321
Plug flow reactor
Kinetics of isocyanuric acid pyrolysis, **28**, 107
Kinetics of triphenylisocyanurate pyrolysis, **24**, 179
Thermal decomposition of propane: an original method of temperature calibration in a plug flow pyrolysis apparatus, **21**, 15
Podophyllotoxin
Pyrolysis-GC/MS of podophyllotoxin and related compounds, **27**, 187
Poisoning
Method of determining catalyst lifetime in the cracking reaction of tar from wood pyrolysis, **22**, 39
Vapor grown carbon fibers from pyrolysis of hydrocarbons: modeling of filament growth and poisoning, **26**, 131
Poly acrylate dispersion
Identification of polar monomers in poly acrylate dispersions with pyrolysis-gas chromatography/mass spectrometry, **19**, 279
Poly aromatic hydrocarbons
Polycyclic aromatic hydrocarbons in waste derived pyrolitic oils, **30**, 17
Polyacrylamide
Investigation of pyrolysis products of polyacrylamide by pyrolysis-gas chromatography, **22**, 129
Polyamides
A method for the interpretation of pyrolysis-mass spectra of polyamides, **23**, 15
Polyamides, aromatic
Analysis of polymers by mass spectrometry. Metastable mapping of transitions from pyrolysis products of an aromatic polyamide, **12**, 3
Poly(aryl-ether-ether-ketone)
The thermal degradation of poly(aryl-ether-ether-ketone) (PEEK) as monitored by pyrolysis-GC/MS and

TG/MS, **18**, 163
Polybenzhydrolimides
Thermal behaviour of polybenzhydrolimides, **11**, 251
Polylbis(benzimidazobenzisoquinolinones)]
Thermal decomposition of segments with two aromatic rings in thermostable macromolecules, **11**, 245
Polybrominated dibenzofurans
Thermal degradation characteristics of high impact polystyrene/decabromodiphenylether/antimony oxide studied by derivative thermogravimetry and temperature resolved pyrolysis-mass spectrometry. Formation of polybrominated dibenzofurans, antimony (oxy)bromide and brominated styrene oligomers, **20**, 303
Polybrominated diphenylethers
Thermal degradation characteristics of high impact polystyrene/decabromodiphenylether/antimony oxide studied by derivative thermogravimetry and temperature resolved pyrolysis-mass spectrometry. Formation of polybrominated dibenzofurans, antimony (oxy)bromide and brominated styrene oligomers, **20**, 303
Polybutadiene
The effect of carbon black filler on the pyrolysis behaviour of vulcanized cis-polybutadiene, **13**, 287
Poly(1-butene)
Thermometric behavior of polyolefins, **15**, 187
Polybutylene-terephthalate
Thermal formation of polybrominated dibenzofurans from decabromodiphenyl ether in a polybutylene-terephthalate polymer matrix, **16**, 153
Polycarbosilane
Chemical vapor deposition of polycarbosilane by laser-induced decomposition of silacyclohexane, **24**, 325
Polychlorinated biphenyls
Laboratory scale pyrolysis experiments using halogenated benzenes, **17**, 357
Poly-*p*-chloromethylstyrene
Kinetics and mechanism of the thermal degradation of poly-*p*-chloromethylstyrene. Thermogravimetric and gas chromatography-mass spectrometry studies, **13**, 171
Poly(diallyl phthalate) (PDAP)
The investigation of poly(methyl methacrylate-diallyl phthalate) gradient index materials by pyrolysis-capillary gas chromatography and pyrolysis-capillary gas chromatography/mass spectrometry, **21**, 327
Polyesters
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone, **11**, 277
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units un the backbone. Part II. The fate of the styrene moiety, **13**, 305
A pyrolysis-derivatisation-gas chromatography technique for the structural elucidation of some synthetic polymers, **16**, 323
Pyrolysis-field ionization mass spectrometry of aliphatic polyesters and their thermal interactions in mixtures, **15**, 197
The thermal stability of aliphatic polyesters and polyester-alkali metal salt complexes, 139
Polyesters, natural
Some mechanisms of flash pyrolysis of naturally occurring higher plant polyesters, **15**, 289
Polyethylene
Comparison of flash pyrolysis, differential scanning calorimetry, ^{13}C NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287
Degradation of polyethylene to aromatic hydrocarbons over metal-supported activated carbon catalysts, **14**, 331
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
Fossil fuels and synthetic polymers: isothermal pyrolysis kinetics as indication of structural resemblance, **14**, 73
Kinetic model of the pyrolysis of

polythene in a fluidized bed reactor, **30**, 101
Thermolysis of low density polyethylene catalysed by zeolites, **29**, 45
Thermometric behavior of polyolefins, **15**, 187
Poly(ethylene glycol)
An investigation of the thermal degradation of poly(ethylene glycol), **30**, 47
Poly-β-hydroxybutyrate
2-Butenoic acid, a chemical marker for poly-β-hydroxybutyrate identified by pyrolysis-gas chromatography/mass spectrometry in analyses of whole microbial cells, **19**, 237
Polyimide
Thermal decomposition of aryl-alicyclic polyimides studied by thermogravimetry/mass spectrometry and pyrolysis-gas chromatography/mass spectrometry, **23**, 229
Polymer deposition
Efficient gas phase polymer deposition by infrared laser-photosensitized decomposition of 4-silaspiro[3.4]octane, **14**, 345
Polymers
An analytical investigation of the thermal degradation of a cation-exchange resin - Part 2, **16**, 269
Analysis of polymers by mass spectrometry. Metastable mapping of transitions from pyrolysis products of an aromatic polyamide, **12**, 3
Analytical degradation: an approach to the structural analysis of microbial polyesters by different methods, **16**, 239
Characterization of polyurethanes by high-resolution pyrolysis-capillary gas chromatography, **12**, 115
CO_2 laser-induced thermal chemical vapour deposition of polymers, **30**, 73
Comparison of flash pyrolysis, differential scanning calorimetry, ^{13}C NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287
Compositional analysis of acrylic thermosetting coatings by pyrolysis-gas chromatography, **12**, 293
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
Degradation products of polymer components Part 1. Toxicological aspects of automobile fires, **16**, 173
Determination of reactive comonomers and/or amino resins in acrylic copolymers used in textile industry, by pyrolysis-gas chromatography-mass spectrometry, **11**, 227
Determination of styrene-butadiene and isoprene tire tread rubbers in piled particulate matter, **15**, 227
Enhancement of evolution profiles in pyrolysis-evolved gas-infrared spectroscopy of polymers, **16**, 143
Evaluation of compositional distributions of styrene-maleic anhydride copolymers by thin-layer chromatography/ pyrolysis-gas chromatography, **16**, 159
Evolution of the product yield with temperature and molecular weight in the pyrolysis of polystyrene, **15**, 249
Fossil fuels and synthetic polymers: isothermal pyrolysis kinetics as indicabon of structural resemblance, **14**, 73
Gas chromatographic and capillary gas chromatographic-mass spectrometric analysis of " thermal decomposition products of liquid crystal polymers, **11**, 233
Kinetics and mechanism of the thermal degradation of poly-*p*-chloromethylstyrene. Thermogravimetric and gas chromatography-mass spectrometry studies, **13**, 171
Mechanism of action and pyrolysis of brominated fire retardants in acrylonitrilebutadiene-styrene polymers, **11**, 511
Polymer pyrolysis mechanisms: experimental approaches for investigating them, **11**, 55
Products of non-flaming combustion of poly(vinyl chloride), **12**, 275
Pyrolysis of poly-4-vinylpyridine: degradation mechanism and structural analysis, **12**, 135
Pyrolysis-gas chromatographic study of end groups in poly(methyl methacrylate) radically polymerized in toluene solution

with benzoyl peroxide as initiator, **15**, 167
Pyrolysis-mass spectrometric investigations of the mechanistic and kinetic aspects of thermal degradation of phenol-formaldehyde polycondensates, **12**, 265
Pyrolysis-mass spectrometry studies of adhesives, **11**, 213
Pyrolysis-mass spectrometry of copolymers of 2-vinylnaphthalene with methylacrylate and methylmaleate, **13**, 161
Pyrolysis studies of flame retarded plastic systems, **11**, 499
Reaction products of triglycidyl isocyanurate with orthophosphoric and polyphosphoric acids: thermal behaviour and pyrolysis studies, **11**, 263
Simultaneous determination of natural and styrene-butadiene rubber tire tread particles in atmospheric dusts by pyrolysis-gas chromatography, **16**, 49
Some empirical considerations on the pyrolysis-gas chromatographic conditions required to obtain characteristic and reliable high-resolution pyrograms for polymer samples, **11**, 181
Studies on the flame-retardant properties of transition metal complexes of cellulose ammonium phosphate, **11**, 465
Studies on the stabilization of poly(vinyl chloride) with a stabilizer containing nitrate compounds, **16**, 335
Studies on thermal degradation of epoxy resins by high-resolution pyrolysis-gas chromatography, **12**, 97
Temperature programmed pyrolysis-mass spectrometry, **11**, 3
The effect of carbon black filler on the pyrolysis behaviour of vulcanized *cis*-polybutadiene, **13**, 287
The effects of heat and mass transport on the results of thermal decomposition studies. Part 2. Polystyrene, polytetra-fluoroethylene and polypropylene, **11**, 83
The potential of pyrolysis-mass spectrometry for fermentation quality control, **11**, 549
The role of pyrolysis in polymer combustion and flame retardance, **11**, 451
Thermal analysis using mass spectrometry: A review, **18**, 1
Thermal behaviour of polybenzhydrolimides, **11**, 251
Thermal decomposition of segments with two aromatic rings in thermostable macromolecules, **11**, 245
Thernal decomposition of polymeric silanes, **15**, 175
Thermal formation of polybrominated dibenzofurans from decabromodiphenyl ether in a polybutylene-terephthalate polymer matrix, **16**, 153
Thermometric behavior of polyolefins, **15**, 187
Polymers, synthetic
Library of pyrolysis-gas chromatography data for synthetie polymers, **15**, 209
Photodegradation and photooxidation of synthetic polymers, **15**,237
Polymethacrylate
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
Pyrolysis-mass spectrometry of copolymers of 2-vinylnaphthalene with methylacrylate and methylmaleate, **13**, 161
Polymethylmaleate
Pyrolysis-mass spectrometry of copolymers of 2-vinylnaphthalene with methylacrylate and methylmaleate, **13**, 161
Poly(methyl methacrylate)(PMMA)
Enhancement of evolution profiles in pyrolysis-evolved gas-infrared spectroscopy of polymers, **16**, 143
Monomer recovery by pyrolysis of poly(methyl methacrylate) (PMMA), **19**, 311
Pyrolysis-gas chromatographic study of end groups in poly(methyl methacrylate) radically polymerized in toluene solution with benzoyl peroxide as initiator, **15**, 167
Sample size dependence in pyrolysis: an embarrassment, or a utility?, **19**, 333
The effect of mechanical degradation on the pyrolysis of poly(methyl methacrylate), **21**, 181
The investigation of poly(methyl methacrylate-diallyl phthalate) gradient index materials by pyrolysis-capillary gas chromatography and pyrolysis-capillary gas chromatography/mass spectrometry, **21**, 327
Poly(methyl methacrylate-diallyl phthalate)
The investigation of poly(methyl

methacrylate-diallyl phthalate) gradient index materials by pyrolysis-capillary gas chromatography and pyrolysis-capillary gas chromatography/mass spectrometry, **21**, 327

Polynaphthalene, 2-vinyl-
Pyrolysis-mass spectrometry of 2-vinyl-naphthalene with methylacrylate and methylmaleate, **13**, 161

Poly(*p*-chlorostyrene)
Thermal degradation of chlorinated polystyrenes, **28**, 205

Polyphenyl-as-triazines
Studies on the thermal degradation of polyphenyl-as-triazines by high resolution pyrolysis-gas chromatography/mass spectrometry and thermogravimetry, **26**, 145

Polypropylene
Degradation of polypropylene to aromatic hydrocarbons over Pt- and Fe-containing activated carbon catalysts, **16**, 229
The effects of heat and mass transport on the results of thermal decomposition studies. Part 2. Polystyrene, polytetrafluoroethylene and polypropylene, **11**, 83

Polypropylene compounds
Direct analysis of polypropylene compounds by thermal desorption and pyrolysis mass spectrometry, **26**, 65

Poly-*p*-*tert*-butylstyrene
Characterisation of kerogens, coals and asphaltenes by quantitative pyrolysis-mass spectrometry, **20**, 25

Polysaccharides
A microanalytical approach to plant tissue characterization: a comparative study of healthy and fungus infected carnation by pyrolysis-mass spectrometry, **19**, 213
Characterization of chemical and mechanical pulps by pyrolysis-gas chromatography/ mass spectrometry, **19**, 139
Characterization of the saccharide composition of heteropolysacchandes by pyrolysis-capillary gas chromatography-mass spectrometry, **11**, 297
Chemical characterization of recent and buried woods by analytical pyrolysis. Comparison of pyrolysis data with ^{13}C NMR and wet chemical data, **11**, 437
Comparison of flash pyrolysis, differential scanning calorimetry, ^{13}C NMR and IR spectroscopy in the analysis of a highly aliphatic biopolymer from plant cuticles, **11**, 287 Polysaccharides
Fast pyrolysis of natural polysaccharides as a potential industrial process, **19**, 41
Thermal degradation of chitin and cellulose, **19**, 119
Influence of linkage position and orientation in pyrolysis of polysaccharides: a study of several glucans, **22**, 217
Initial application of desorption chemical ionization-pyrolysis-tandem mass spectrometry to structural analysis of carbohydrates, **15**, 85
Preparative isolation of oligomers with a terminal anhydrosugar unit by thermal degradation of chitin and cellulose, **17**, 319
Pyrolysis-direct chemical ionization mass spectrometry of some biopolymers in the positive and negative ionization mode, **15**, 55
The potential of pyrolysis-mass spectrometry for fermentation quality control, **11**, 549

Polysilanes
Thermal decomposition of polymeric silanes, **15**, 175

Polystyrene
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone. Part II. The fate of the styrene moiety, **13**, 305
An approach to solid state kinetics, **15**, 373
Evolution of the product yield with temperature and molecular weight in the pyrolysis of polystyrene, **15**, 249
Fossil fuels and synthetic polymers: isothermal pyrolysis kinetics as indication of structural resemblance, **14**, 73
Molecular weight and pyrolysis products distribution of polymers. I. Polystyrene, **24**, 61
Pyrolysis behaviour of a styrene-ethylene (styrene-hydrogenated butadiene) copolymer, **15**, 261
Pyrolysis studies of flame retarded plastic systems, **11**, 499

Sample size dependence in pyrolysis: an embarrassment, or a utility?, **19**, 333
The effects of heat and mass transport on the results of thermal decomposition studies. Part 2. Polystyrene, polytetrafluoroethylene and polypropylene, **11**, 83
Thermal decomposition of polystyrene: volatile compounds from large-scale pyrolysis, **18**, 143
Polystyrene pyrolysis
Trimer formation studies in polystyrene pyrolysis reveal that time-resolved mass spectrometry can be misleading, **19**, 319
Poly(styrene-dimethylsiloxane)
Characterization of poly(styrene-dimethylsiloxane) block copolymer by high-resolution pyrolysis-gas chromatography/mass spectrometry, **18**, 79
Poly(styrenesulfides)
Thermal degradation products of poly(styrenesulfides) investigated by direct pyrolysis-mass spectrometry and flash pyrolysis-gas chromatography/mass spectrometry, **29**, 207
Polytetrafluoroethylene
The effects of heat and mass transport on the results of thermal decomposition studies. Part 2. Polystyrene, polytetrafluoroethylene and polypropylene, **11**, 83
Polyurethanes
Characterization of polyurethanes by high-resolution pyrolysis-capillary gas chromatography, **12**, 115
Enhancement of evolution profiles in pyrolysis-evolved gas-infrared spectroscopy of polymers, **16**, 143
Polyvinyl acetate
A pyrolysis-derivatisation-gas chromatography technique for the structural elucidation of some synthetic polymers, **16**, 323
Poly(vinyl chloride)
Products of non-flaming combustion of poly(vinyl chloride), **12**, 275
Pyrolysis studies of name retarded plastic systems, **11**, 499
Studies on the stabilization of poly(vinyl chloride) with a stabilizer containing nitrate compounds, **16**, 335
Polyvinylcyclohexane
Pyrolysis-gas chromatographic/mass spectrometric behaviour of polyvinyl-cyclohexane and vinylcyclohexane-styrene copolymers, **17**, 291
Poly-4-vinylpyridine
Pyrolysis of poly-4-vinylpyridine: degradation mechanism and structural analysis, **12**, 135
Polyvinylpyrrolidone
Trace determination of high molecular weight polyvinylpyrrolidone by pyrolysis-gas chromatography, **17**, 251
Poplar
Lignin derived oils from the fast pyrolysis of poplar wood, **12**, 51
Populus tremuloides
Characterization of the solid residues of vacuum pyrolysis of *Populus tremuloides*, **14**, 281
Positive ionization
Pyrolysis-direct chemical ionization mass spectrometry of some biopolymers in the positive and negative ionization mode, **15**, 55
Post pyrolysis
Comparison of effects of bed depth and particle size on volatiles produced by slow pyrolysis of coal, **28**, 45
Potassium carbonate
Flash pyrolysis for the continuous conversion of reed into hydrocarbons, **13**, 233
Potassium chlorate
Thermal decomposition or potassium chlorate in the presence of chromium(III) oxide, **28**, 219
Potassium tetramolybdate
Investigations on the formation of potassium tetramolybdate via thermal decomposition of a new oxo-molybdenum(VI) oxalato complex, **18**, 91
Praseodymium acetate
Formation of praseodymium oxide from the thermal decomposition of hydrated praseodymium acetate and oxalate, **29**, 89
Praseodymium oxalate
Formation of praseodymium oxide from the thermal decomposition of hydrated praseodymium acetate and oxalate, **29**, 89
Praseodymium oxide
Formation of praseodymium oxide from the thermal decomposition of hydrated praseodymium acetate and oxalate, **29**, 89
PRB L

Scope and limitations of flash pyrolysis-gas chromatography/mass spectrometry as revealed by the thermal behaviour of high molecular-weight lipids derived from the green microalga *Botryococcus braunii*, **28**, 183
Prehistoric pottery
Molecular archaeology: analysis of charred (food) remains from prehistoric pottery by pyrolysis-gas chromatography/mass spectrometry, **20**, 197
Pressure
Pyrolysis of organic matter in cold-seal pressure autoclaves. Experimental approach and applications, **16**, 103
Principal component analysis
Data analysis of pyrolysis-mass spectrometric profiles generated with soft ionization detection: application to barley tissue profiles, **20**, 73
Indications from analytical pyrolysis on the evolution of organic materials in the temperate environment, **11**, 355
Rapid characterization of *Salmonella* strains with direct chemical ionization pyrolysis, **11**, 329
The potential of pyrolysis-mass spectrometry for fermentation quality control, **11**, 549
Principal component regression
Use of principal component regression to characterize a complex oxidation product mixture, **21**, 1
1-Pristene
Mineral-catalysed transformations of terrninal alkenes during pyrolysis, **14**, 191
Prist-1-ene
Pyrolysis of chlorophyll a after preliminary heating at a moderate temperature: implications for the origin of prist-1-ene on kerogen pyrolysis, **18**, 207
Processing
An exploratory study of the processing of plastics, by means of pyrolysis, with the emphasis on PVC/aluminum combinations, **20**, 321
Pronase
Micro-analytical investigations on lignin in enzyme-digested tobacco lamina and midrib using pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography/mass spectrometry, **19**, 153
Proof and characterization of radicals
Low-temperature matrix-isolation infrared spectroscopy - a method to characterize reactive species from low-pressure pyrolysis of hydrocarbons for mechanistic elucidations, **23**, 265
Propane
Study of kinetic models for the pyrolysis reaction of propane, **13**, 183
Thermal decomposition of propane: an original method of temperature calibration in a plug flow pyrolysis apparatus, **21**, 15
Propane fraction
Gas chromatography analysis of propane fraction derived from pyrolysis of gas oil, **21**, 111
1,2-Propanediol
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone, **11**, 277
A comparative study of the thermal degradation of unsaturated polyester resins containing various chlorinated norbornene dicarboxylic acid units in the backbone. Part II. The fate of the styrene moiety, **13**, 305
i-Propylbenzene
Thermal cracking of substituted aromatic hydrocarbons I. Kinetic study of the thermal cracking of i-propylbenzene, **21**, 27
i-Propylbenzene
Thermal cracking of substituted aromatic hydrocarbons. II. Kinetic study of the thermal cracking of *n*-propylbenzene and ethylbenzene, **21**, 51
Proteins
Amino acid sequence information in proteins and complex proteinaceous material revealed by pyrolysis-capillary gas chromatography- low and high resolution mass spectrometry, **11**, 313
Pulp mill effluents
Qualitative analysis of chlorolignins and lignosulphonates in pulp mill effluents entering the river Rhine using pyrolysis-mass spectrometry and pyrolysis-gas chromatography/mass spectrometry, **20**, 275
Pulps
Characterization of chemical and

mechanical pulps by pyrolysis-gas chromatography/ mass spectrometry, **19**, 139
Purge-and-trap sampling
Development of a Curie-point thermal desorption system and its application to the analysis of atmospheric dusts, **15**, 217
PVC
Products of non-flaming combustion of poly(vinyl chloride), **12**, 275
PVC/aluminum combinations
An exploratory study of the processing of plastics, by means of pyrolysis. with the emphasis on PVC/aluminum combinations, **20**, 321
Py-GC/MS
A pyrolysis-gas chromatographic/mass spectrometric method for measuring the DNA content of cultured mammalian cells, **24**, 107
Pyrolysis GC/MS of podophyllotoxin and related compounds, **27**, 187
Generation of isobenzofuran derivatives by pyrolysis-gas chromatography/mass spectrometry, **24**, 139
Pyrolysis gas chromatography/mass spectrometry of amino acids, **24**, 123
Use of pyrolysis-gas chromatography/mass spectrometry in the study of lignin assays, **24**, 243
Py-Ms
Quantitative analysis of the pyrolysis mass spectra of complex mixtures using artificial neural networks: application to amino acids in glycogen, **26**, 93
Pyrazines, polyhydroxyalkyl-
Curie-point pyrolysis-capillary gas chromatography-mass spectrometry of polyhydroxyalkylpyrazines, **13**, 191
3-Pyridinyl(trimethyl)silane
Laser induced decomposition of 3-pyridinyl(trimethyl)- and 3-pyridinyl(triethoxy)silane, **28**, 175
Pyrites
Flash pyrolysis of coal, coal maceral, and coal-derived pyrite with on-line characterization of volatile sulfur compounds, **13**, 199
Pyrolysis capillary GC/MS
Characterization of poly(styrene-dimethylsiloxane) block copolymer by high-resolution pyrolysis-gas chromatography/mass spectrometry, **18**, 79
Pyrolysis, Curie-point
Curie-point pyrolysis-capillary gas chromatography-mass spectrometry of polyhydroxyalkylpyrazines, **13**, 191
Pyrolysis, flash
Flash pyrolysis of coal, coal maceral, and coal-derived pyrite with on-line characterization of volatile sulfur compounds, **13**, 199Pyrolysis, flash
Product yield correlations for cellulose flash pyrolysis, **13**, 103
Pyrolysis mass spectrometry
Direct analysis of polypropylene compounds by thermal desorption and pyrolysis-mass spectrometry, **26**, 65
The interpretation of pyrolysis mass spectra of polymers using a "hybrid" software system based on library searching with heuristics, **20**, 65
Pyrolysis mechanisms
Characterisation of oligomers and sugar ring-cleavage products in the pyrolysate of cellulose, **19**, 65
Pyrolysis of coal
Free radicals, kinetics and phase changes in the pyrolysis of eight American coals, **13**, 209
Pyrolysis oil
Characterization of used tire vacuum pyrolysis oil: nitrogenous compounds from the naphtha fraction, **22**, 205
Pyrolysis, problems in
Current problems in pyrolysis, **13**, 1
Pyrolysis reactor
Techniques in gas-phase thermolyses. Part 8. The fate of molecules in low-pressure pyrolysis reactors. A theoretical study, **11**, 25
Pyrolysis single photon ionization
Laser desorption multiphoton ionization mass spectrometry, **20**, 47
Pyrolysis thermal desorption
Differentiation of Victorian brown coal lithotypes as revealed by thermally desorbable biomarkers, **20**, 161
Pyrolysis/capillary gas chromatography/mass spectrometry
Quantitative determination of acrylic copolymers by pyrolysis/capillary gas chromatography/mass spectrometry, **21**, 163
Pyrolysis-gas chromatography

Studies on the thermal degradation of polyphenyl-as-triazines by high resolution pyrolysis-gas chromatography/mass spectrometry and thermogravimetry, **26**, 145
Pyrolysis-gas chromatography/mass spectrometry
Analysis of leaf and fine root litter from a subtropical montane rain forest by pyrolysis-gas chromatography/mass spectrometry, **27**, 1
Characterization of impurities in pulp and paper products using pyrolysis-gas chromatography/mass spectrometry including direct methylation, **27**, 73
Pyrolysis-gas chromatography/mass spectrometry of wheat straw fractions obtained by alkaline treatments used in pulping processes, **27**, 57
Pyrolysis-mass spectrometry
Phenotypic variation as a significant withinstrain factor in comparisons of bacteria based on pyrolysis-mass spectrometry, **28**, 29
Rapid discrimination between closely similar oligonucleotides by pyrolysis-mass spectrometry, **28**, 39
Pyroprobe
Gas production by almond shell pyrolysis at high temperature, **28**, 13
Pyroprobe 1000
Flash pyrolysis of Klason lignin in a Pyroprobe 1000, **27**, 221
Pyro-products
Isothermal fluidized-bed studies on the kinetics and pyro-products of linear and branched poly(*p*-phenylene sulfide) and proposed mechanisms, **27**, 131
Preparation of a thiophenol/formaldehyde resin; its structure and the mechanism of its pyrolysis, **28**, 231

Quantitation
Characterisation of kerogens. coals and asphaltenes by quantitative pyrolysis-mass spectrometry, **20**, 25
Quantitative analysis
Quantitative analysis of the major saccharides in sulfite-treated wood pulps by pyrolysis-gas chromatography: the effect of metal ions, **23**, 153
Quantitative conversion
Experimental study of the quantitative conversion of hexachlorobenzene during high temperature pyrolysis, **27**, 281
Quantitative determination
Quantitative determination of acrylic copolymers by pyrolysis/capillary gas chromatography/mass spectrometry, **21**, 163
Quartz tube pyrolysis
Characterization of bacteria by quartz tube pyrolysis-gas chromatography/ion trap mass spectrometry, **24**, 23
Quartz-tube pulse pyrolysis
Quantitative analysis of saccharides in wood pulps by quartz-tube pulse pyrolysis-polar phase gas chromatography, **19**, 105

Radiation thermometry
High speed, two-wavelength radiation thermometry of single micro particles during CO_2 laser heating, **28**, 55
Radicals
Radical-sensitized thermal decomposition of 1,3-dioxolane in the gas phase, **18**, 219
Radiochromatographic analysis
Slow gas-phase oxidation of diethylacetal, **16**, 75
Radiotracer
New results about the mechanism of TLE fouling in steam crackers, **27**, 45
Rank
A pyrolysis-gas chromatography/mass spectrometry study on coals, **29**, 15
Rapid discrimination
Rapid discrimination between closely similar oligonucleotides by pyrolysis-mass spectrometry, **28**, 39
Rate constant
Polymer pyrolysis mechanisms: experimental approaches for investigating them, **11**, 55
Rawhide sub-bituminous
Matrix isolation-Fourier transform infrared spectroscopy studies of flash pyrolysis of four coal tars, **14**, 99
Matrix isolation-Fourier transform infrared spectroscopy studies of slow pyrolysis processes for four coals, **14**, 115
RDX
Laser pyrolysis of explosives combined with mass spectral studies of the ignition zone, **24**, 163
Reaction kinetics

Kinetics of cellulose pyrolysis modelled by three consecutive first-order reactions, **17**, 37
Pyrolysis and combustion kinetics of crude oils, asphaltenes and resins in relation to thermal recovery, **20**, 185
Techniques in gas-phase thermolyses. Part 8. The fate of molecules in low-pressure pyrolysis reactors. A theoretical study, **11**, 25
Reaction mechanism
Characterization of polyurethanes by high-resolution pyrolysis-capillary gas chromatography, **12**, 115
Cracking of decalin and tetralin in the presence of mixtures of *n*-decane and steam at about 810 °C, **11**, 39
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
Direct infrared spectroscopic evidence of allyl radical and definition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, **22**, 79
Evolution of the product yield with temperature and molecular weight in the pyrolysis of polystyrene, **15**, 249
Kinetics and mechanism of the thermal degradation of poly-p-chloromethyl-styrene. Thermogravimetric and gas chromatography-mass spectrometry studies, **13**, 171
Kinetics and mechanism of the vapor phase pyrolysis of 1,3-dioxolane in steam, **12**, 223
Kinetics of pyrolysis of solid samples, **11**, 65
Photodegradation and photo-oxidation of synthetic polymers, **15**, 237
Polymer pyrolysis mechanisms: experimental approachs for investigating them, **11**, 55
Pyrolysis of α-carbonyl-substituted cycloalkyl phenyl sulphoxides, **12**, 257
Pyrolysis of poly-4-vinylpyridine: degradation mechanism and structural analysis, **12**, 135
Pyrolysis of tetralin at 450 °C, **14**, 17
Pyrolysis of various organosilazanes used as single precursor of SiN_xC_y: H films in OMCVD process, **17**, 67
Pyrolysis-mass spectrometnc investigations of the mechanistic and kinetic aspects of thermal degradation of phenol-formaldehyde polycondensates, **12**, 265
Slow gas-phase oxidation of diethylacetal, **16**, 75
Some mechanisms of flash pyrolysis of naturally occurring higher plant polyesters, **15**, 289
Study of kinetic models for the pyrolysis reaction of propane, **13**, 183
Thermal decomposition of 3-methylpentane and *n*-hexane: reaction mechanism and correlations between structure and formation of light olefins, **12**, 243
Thermal reactions of decalin. I. A comparative study of conventional and laser-driven pyrolysis, **18**, 19
Thermal reactions of decalin. II. A mass spectrometric study, **18**, 33
Thermometric behavior of polyolefins, **15**, 187
Unimolecular thermal reactions of C_5 to C_8
Reaction rate
A new apparatus to measure the reaction rates of wood and coal char in a high-pressure environment, **15**, 307
Kinetics of pyrolysis of solid samples, **11**, 65
Rearrangement
Dealkylation and rearrangement of phenacylammonium salts in a gas chromatographic injector, **27**, 199
Rearrangement reactions in the thermal formation of aromatics from cycloolefins. ^{14}C-labelling studies, **13**, 259
Thermal rearrangements XXI. Very low pressure pyrolysis of 3-methylene-5-trimethylsilyl-1.4-pentadiyne, **29**, 57
Rearrangement reactions
Laser-powered homogeneous decomposition of isobornyl acetate. Evidence for rearrangement reactions in the gas phase, **14**, 179
Reduction process
The use of ESR in studying the reduction process ($Fe^{3+} \rightarrow Fe^{2+}$) during the isothermal decomposition of ferric oxalate hydrate, **27**, 275

Reed
Flash pyrolysis for the continuous conversion of reed into hydrocarbons, **13**, 233
Refuse-derived fuel
Characterization of refuse-derived fuel by pyrolysis-gas chromatography and gas chromatography/mass spectrometry, **17**, 169
Reinforcement
The effect of carbon black filler on the pyrolysis behaviour of vulcanized cis-polybutadiene, **13**, 287
Reproducibility
Reproducibility in pyrolysis. Recent developments, **12**, 75
Residence time
Techniques in gas-phase thermolyses. Part 8. The fate of molecules in low-pressure pyrolysis reactors. A theoretical study, **11**, 25
Resin
A comparative study of three different pyrolysis methods used to characterise a biopolymer isolated from fossil and extant dammar resins, **20**, 125
Pyrolysis and combustion kinetics of crude oils, asphaltenes and resins in relation to thermal recovery processes, **20**, 185
Compositional analysis of acrylic thermosetting coatings by pyrolysis-gas chromatography, **12**, 293
Pyrolysis-gas chromatography/mass spectrometry identification of styrene cross-linked polyester and vinyl ester resins, **22**, 113
Pyrolysis-mass spectrometry of natural gums, resins, and waxes and its use for detecting such materials in ancient Egyptian mummy cases (cartonnages), **11**, 195
Pyrolysis-mass spectrometry studies of adhesives, **11**, 213
Retention index
A simple method for the introduction of low molecular weight reference compounds for the determination of retention indices or retention time comparison in Curie-point pyrolysis studies, **24**, 191
Retro-Diels-Alder reaction
Flow and flash-vacuum pyrolyses of 2-cyclohexen-1-ol and 2-cyclohexen-1-amine: a rapid access to 1,3-butadien-1-ol and 1,3-butadien-1-amine, **14**, 171
Reverse aldolisation
Characterisation of oligomers and sugar ring-cleavage products in the pyrolysate of cellulose, **19**, 65
Rootlets of Ericaceae
Characterisation of subfossil *Sphagnum* leaves, rootlets of Ericaceae and their peat by pyrolysis-high-resolution gas chromatography-mass spectrometry, **11**, 377
Rosin
Characterization of impurities in pulp and paper using pyrolysis-gas chromatography/mass spectrometry including direct methylation, **27**, 73
Rubber
Characterization of used tire vacuum pyrolysis oil: nitrogenous compounds from the naphtha fraction, **22**, 205
Rubber, isoprene
Determination of styrene-butadiene and isoprene tire tread rubbers in piled particulate matter, **15**, 227
Rubber, styrene-butadiene
Determination of styrene-butadiene and isoprene tire tread rubbers in piled particulate matter, **15**, 227

Saccharides
Characterization of the saccharide composition of heteropolysaccharides by pyrolysis-capillary gas chromatography-mass spectrometry, **11**, 297
Quantitative analysis of saccharides in wood pulps by quartz-tube pulse pyrolysis-polar phase gas chromatography, **19**, 105
Quantitative analysis of the major saccharides in sulfite-treated wood pulps by pyrolysis-gas chromatography: the effect of metal ions, **23**, 153
Sagebrush
Pattern-recognition studies of Curie-point pyrolysis-gas chromatographic data from materials important to agriculture, **15**, 357
Salmonella
Rapid characterization of *Salmonella* strains with direct chemical ionization pyrolysis, **11**, 329
Salt catalysis

Influence of linkage position and orientation in pyrolysis of polysaccharides: a study of several glucans, **22**, 217
Influence of metal ions and of salts on products from pyrolysis of wood: applications to thermochemical processing of newsprint and biomass, **21**, 133
Sample size
Polymer pyrolysis mechanisms: experimental approaches for investigating them, **11**, 55
Sample size dependence in pyrolysis: an embarrassment, or a utility?, **19**, 333
Sampling unit
Analysis and toxicity testing of combustion gases. I. A new sampling unit for collection of combustion products, **28**, 1
Scavenger
Pyrolysis-gas chromatography-mass spectrometry of two trimeric lignin model compounds with alkyl-aryl ether structure, **14**, 135
Sediments
Characterization of the aliphatic nature of kerogens isolated from marine sediments by vacuum pyrolysis, **11**, 109
Segmented polyurethanes
Pyrolysis tandem mass spectrometry (PyMS/MS) of a segmented polyurethane, **17**, 237
Selected ion monitoring
Composition and microstructure of butadiene-isoprene copolymers from pyrolysis-gas chromatographic/mass spectrometric data, **23**, 33
Sensitized pyrolysis
Radical-sensitized thermal decomposition of 1,3-dioxolane in the gas phase, **18**, 219
Sewage sludge: Pyrolysis of sewage sludge and use of pyrolysis coke, **28**, 137
Sequence length distribution
Pyrolysis behaviour of a styrene-ethylene (styrene-hydrogenated butadiene) copolymer, **15**, 261
Sewage sludge
The Siemens Thermal Waste Recycling Process - a modern technology for converting waste into usable products, **27**, 15
Seyitömer oil shale
Pyrolysis of Seyitömer oil shale and lignite under different processing conditions, **29**, 25
Shale
The decomposition of Posidonia Shale and Green River Shale kerogens using microscale sealed vessel (MSSV) pyrolysis, **20**, 107
Shale oil
The pyrolysis reactions and jet fuel potential of a Green River shale oil, **22**, 73
Shrinkage
Dilatometry of wood. Part 1. Longitudinal dilatometry of wood untreated and treated with ammonium phosphate, **23**, 175
Silacyclohexane
Chemical vapor deposition of polycarbosilane by laser-induced decomposition of silacyclohexane, **24**, 325
Silane coupling agents
An analytical investigation of silane coupling agents on glass fibres, **18**, 261
4-Silaspiro[3.4]octane
Efficient gas phase polymer deposition by infrared laser-photosensitized decomposition of 4-silaspiro[3.4]octane, **14**, 345
Silica, pyrogenic
The pyrolysis of tetrethoxysilane over carbon and silica substrates, **15**, 275
Silicon
Synthesis and pyrolysis of organometallic precursors of Si-C-Ge alloy amorphous thin films, **22**, 95
Silicon thim films
A mass spectrometry study of the gas pyrolysis of PH_3 and a PH_3/Si_2H_6 mixture, **26**, 27
Thermal dissociation of disilane: quadrupole mass spectrometry investigation, **24**, 51
Silylation
Sequence of phenolic units in phenol-formaldehyde polycondensates studied by pyrolysis-gas chromatography/mass spectrometry, **19**, 251
Simultaneous pyrolysis-methylation
The potential of pyrolysis-gas chromatography/mass spectrometry in the recognition of ancient painting media, **24**, 227
Single micro particles
High speed, two-wavelength radiation thermometry of single micro particles during CO_2 laser heating, **28**, 55

Singlet oxygen
Photodegradation and photo-oxidation of synthetic polymers, **15**, 237
Size exclusion chromatography
The molecular weight range of pyrolytic oils derived from tyre waste, **29**, 111
Slow pyrolysis
Matrix isolation-Fourier transform infrared spectroscopy studies of slow pyrolysis processes for four coals, **14**, 115
Smoke, tobacco
Recent advances in studies on the pyrosynthesis of cigarette smoke constituents (Review), **12**, 193
Sodium borate
Dilatometry of wood. Part II. Longitudinal dilatometry of wood treated with sodium borate, ammonium bromide, and sodium chloride, **23**, 245
Sodium chloride
Curie-point pyrolysis atmospheric pressure chemical ionization mass spectrometry as a probe on the effect of sodium chloride on biopolymers,**13**, 77
Dilatometry of wood. Part II. Longitudinal dilatometry of wood treated with sodium borate, ammonium bromide, and sodium chloride, **23**, 245
Sodium chlorite
Pyrolysis-gas chromatography/mass spectrometry of lignocellulosics in forages and by-products, **19**, 203
Softwoods
Analysis of lignin by pyrolysis-gas chromatography. I. Effect of inorganic substances on guaiacol-derivative yield from softwoods and their lignins, **18**, 59
Soil
Analytical pyrolysis and environmental research, **15**, 3
Soil organic matter
Studies on the composition and formation of soil organic matter in terrestrial soils by wet-chemical methods and pyrolysis field ionization mass spectrometry, **27**, 169
Soil science
Studies on the composition and formation of soil organic matter in terrestrial soils by wet-chemical methods and pyrolysis field ionization mass spectrometry, **27**, 169
Soil profiles
Pyrolysis and soft ionization mass spectrometry of aquatic/terrestrial humic substances and soils, **12**, 149
Soils
Chemical structure of a soil humic acid as revealed by analytical pyrolysis, **11**, 367
Pyrolysis-gas chromatographic analyses of organic matter in soils using nitrogen-selective detection, **19**, 193
Soils, peat
Indications from analytical pyrolysis on the evolution of organic matenals in the temperate environment, **11**, 355
Solid polymeric electrolyte
The thermal stability of aliphatic polyesters and polyester-alkali metal salt complexes, **22**, 139
Solid state
Solid state pyrolyses. Part 4 Kinetic evaluation of coal pyrolyses: eflects of maturation, **26**, 115
Solid state kinetics
Solid stale pyrolyses. Part 2. Solid state kinetics studied by pyrolysis-gas chromatography, **19**, 15
Solvent extraction
Thermal desorption as an analytical technique in biomarker analysis of immature coals, **18**, 41
Soot
Analysis of soot from the combustion of alkylbenzenes, **26**, 53
Source rock OMTs
Chemometric analysis of pyrolysate compositions: a model for predicting the organic matter type of source rocks using pyrolysis-gas chromatography, **20**, 87
Spots
Characterization of impurities in pulp and paper using pyrolysis gas chromatography/mass spectrometry, including direct methylation, **27**, 73
Sphagnum
Characterisation of subfossil *Sphagnum* leaves, rootlets of Ericaceae and their peat by pyrolysis-high-resolution gas chromatography-mass spectrometry, **11**, 377
Spore
Characterization of *Agaricales* spores by pyrolysis-capillary gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **15**, 137
Sporopollenin
Thermal simulations of the evolution of

carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, • II and III, **17**, 329
Spruce needles
Analytical pyrolysis and environmental research, **15**, 3
Spruce wax
Analytical pyrolysis and environmental research, **15**, 3
Stability
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
Staphylococci
The staphylococci: a classification and identification study using pyrolysis-gas-liquid chromatography, **11**, 527
Steam cracking
New results about the mechanism of TLE fouling in steam crackers, **27**, 45
Stepwise pyrolysis-gas chromatography
Thermal decomposition behavior of oil shale kerogens observed by stepwise pyrolysis-gas chromatography, **24**, 273
Steranes
A review of biomarkers in kerogens as determined by pyrolysis-gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **11**, 93
Stony cultural properties
Applications of analytical pyrolysis to the study of stony cultural properties, **20**, 239
Straw
Characterization by pyrolysis-gas chromatography of wheat straw fermented with white rot fungus *Stropharia rugosoannulata*, **15**, 129
Streptococci
Discrimination and clustering of streptococci by pyrolysis-gas chromatography/mass spectrometry and multivariate data analysis, **18**, 97
Structural changes
Thermal analysis by diffuse reflectance Fourier transform infrared spectroscopy-mass spectrometry, **18**, 325
Structural studies
Coal characterization using pyrolysis-Fourier transform infrared spectroscopy, **20**, 171
Styrene
Pyrolysis-gas chromatography/mass spectrometry identification of styrene cross-linked polyester and vinyl ester resins, **22**, 113
Styrene-butadiene
Determination of styrene-butadiene and isoprene tire tread rubbers in piled particulate matter, **15**, 227
Styrene/MMA copolymer
Trimer formation studies in polystyrene pyrolysis reveal that time-resolved mass spectrometry can be misleading, **19**, 319
Suberin
Characterisation of subfossil *sphagnum* leaves, rootlets of Ericaceae and their peat by pyrolysis-high-resolution gas chromatography-mass spectrometry, **11**, 377
Sugar cane
Sugar cane bagasse as a feedstock for an industrial fast pyrolysis process under development, **12**, 301
Sulfates
Determination of sulfates in urban air by pyrolysis-gas chromatography with name photometric detection, **20**, 263
Sulfite pulps
Quantitative analysis of the major saccharides in sulfite-treated wood pulps by pyrolysis-gas chromatography: the effect of metal ions, **23**, 153
Sulfonamides
Pyrolysis-gas chromatography of separated zones on thin-layer chromatograms IV. Application to the determination of some sulfonamide drugs, **14**, 323
Sulfonylureas
Pyrolysis-gas chromatography/ mass spectrometry and electron impact-, fast atom bombardment-mass spectrometry of sulfonylureas, **21**, 239
Sulphur
Behavior of sulfur during coal pyrolysis, **30**, 91
Comments on "Sulphur Isotope Composition of H_2S Evolved duringNonisothermal Pyrolysis of Sulphur-containing Matenals" by H R. Krouse, R.G.S. Ritchie and R.S. Roche, **14**, 1

Sulphur isotope composition of H_2S evolved during the non-isothermal pyrolysis of sulphur-containing materials, **12**, 19
Response to Comments by A.K. Burnham on "Sulphur Isotopes Composition of H_2S Evolved during Nonisothermal Pyrolysis of Sulphur-containing Materials" by H.R. Krouse, R.G.S Ritchie and R.S. Roche, **14**, 3
Sulphur compounds
Flash pyrolysis of coal, coal maceral, and coal-derived pyrite with on-line characterization of volatile sulfur compounds, **13**, 199
Molecular rearrangements of sulphur compounds Part 3. Pyrolysis of substituted thiazolidinones, **22**, 107
Organic sulphur compounds produced by flash pyrolysis of Timhadit oil shale, **17**, 217
Suspended particulate matter
Determination of sulfates in urban air by pyrolysis-gas chromatography with name photometric detection, **20**, 263
Sweep pyrolysis
Pyrolysis of Seyitömer oil shale and lignite under different processing conditions,**29**, 25
Synthetic rubber
The effect of carbon-black filling on the pyrolysis behavior of natural and synthetic rubbers,**29**, 129

Tandem mass spectrometry
Acrylic compound characterization by oxidative pyrolysis, atmospheric pressure chemical ionization-tandem mass spectrometry, **17**, 127
Characterization of algae by pyrolysis-direct chemical ionization (Tandem) mass spectrometry, **18**, 245
Identification of chemical biomarker compounds in bacteria and other biomaterials by pyrolySis-tandem mass spectrometry, **24**, 1
Initial application of desorption chemical ionization-pyrolysis-tandem mass spectrometry to structural analysis of carbohydrates, **15**, 85
Pyrolysis-direct chemical ionization mass spectrometry of some biopolymers in the positive and negative ionization mode, **15**, 55
Pyrolysis-tandem mass spectrometry of bacteria, **14**, 7
Pyrolysis tandem mass spectrometry (PyMS/MS) of a segmented polyurethane, **17**, 237
Tar
Experimental approach to the catalyzed cracking reaction of tar from wood pyrolysis, **21**, 265
Kinetic parameters of the cracking reaction of tar from wood pyrolysis: comparison of dolomite with industrial catalysts, **22**, 47
Matrix isolation-Fourier transform infrared spectroscopy studies of flash pyrolysis of four coal tars, **14**, 99
Matrix isolation-Fourier transform infrared spectroscopy studies of flow pyrolysis processes for four coals, **14**, 115
Method of determining catalyst lifetime in the cracking reaction of tar from wood prolysis, **22**, 39
Tar formation under different biomass gasification conditions, **29**, 169
Temperature
Effect of particle size and temperature on evolution rate of volatiles from coal, **27**, 97
Temperature profiles
Influence of the heating rate on the temperature profiles and on the conversion rate of powdery cellulose and pine sawdust, **30**, 145
Temperature-programmed in-source pyrolysis
Analytical pyrolysis and environmental research, **15**, 3
Temperature resolved pyrolysis-mass spectrometry
Thermal degradation characteristics of high impact polystyrene/decabromo-diphenylether/antimony oxide studied by derivative thermogravimetry and temperature resolved pyrolysis-mass spectrometry. Formation of polybrominated dibenzofurans, antimony (oxy)bromides and brominated styrene oligomers, **20**, 303
Temperature-time profile
Polymer pyrolysis mechanisms: expenmental approaches for investigating

them, **11**, 55
Tetralin
Cracking of decalin and tetralin in the presence of mixtures of *n*-decane and steam at about 810 °C, **11**, 39
Tetraethoxysilane
Analysis and modelling of tetraethoxysilane pyrolysis, **13**, 141
The pyrolysis of tetrethoxysilane over carbon and silica substrates, **15**, 275
Tetralin
Pyrolysis of tetralin at 450 °C, **14**, 17
Tetramethoxysilane
Laser-induced decomposition of trimethyl (methoxy)silane, hexamethyldisiloxane and tetramethoxysilane for production of silicon-containing coatings, **18**, 71
Tetramethylammonium hydroxide
Mechanistic aspects of the pyrolytic methylation and transesterification of bacterial cell wall lipids, **21**, 221
Pyrolysis derivatization of humic substances. I. Pyrolysis of fulvic acids in the presence or tetramethylammonium hydroxide, **28**, 71
Tetramethylammonium salts
The behaviour of esters in the presence of tetramethylammonium salts at elevated temperatures; flash pyrolysis or flash chemolysis?, **26**, 175
Texas lignite
Matrix isolation-Fourier transform infrared spectroscopy studies of flash pyrolysis of four coal tars, **14**, 99
Matrix isolation-Fourier transform infrared spectroscopy studies of slow pyrolysis processes for four coals, **14**, 115
TG-trap-GC/MS
Thermal behavior and mass spectrometry studies of 2-oxazolidinone derivatives, **24**, 291
TGA
A kinetic study of the decarbonation of $CaCO_3$, **27**, 119
Thermal analysis
The role of pyrolysis in polymer combustion and flame retardance, **11**, 451
Thermal analysis by diffuse reflectance Fourier transform infrared spectroscopy-mass spectrometry, **18**, 325
Thermal analysis using mass spectrometry: A review, **18**, 1
Thermal rearrangements XXI. Very low pressure pyrolysis of 3-methylene-5-trimethylsilyl-1,4-pentadiyne, **29**, 57
Thermal conversion
Rearrangement reactions in the thermal formation of aromatics from cycloolefins. ^{14}C-labelling studies, **13**, 259
Thermal coupling
Thermal coupling of methane: influence of hydrogen at 1330 °C. Experimental and simulated results, **29**, 183
Thermal cracking
Thermal cracking of substituted aromatic hydrocarbons. I. Kinetic study of the thermal cracking of i-propylbenzene, **21**, 27
Thermal cracking of substituted aromatic hydrocarbons. II. Kinetic study of the thermal cracking of n-propylbenzene and ethylbenzene, **21**, 51
Thermal decomposition
A comparison of products from an air atmosphere tube furnace with a vacuum Curie-point pyrolyser: implications for biodetection, **24**, 211
A gas phase pyrolysis gas chromatography-Fourier transform infrared system for use in thermal decomposition studies of volatile compounds, **13**, 63
Coal characterization using pyrolysis-Fourier transform infrared spectroscopy, **20**, 171
Cracking of decalin and tetralin in the presence of mixtures of *n*-decane and steam at about 810 °C, **11**, 39
Effects of an intense thermal flux on a lignocellulosic material, **21**, 305
Evaluation of the thermal decomposition apparatus used for toxicity testing of hydraulic fluids, **23**, 43
Formation of praseodymium oxide from the thermal decomposition of hydrated praseodymium acetate and oxalate,**29**, 89
Influence of the heating rate on the temperature profiles and on the conversion rate of powdery cellulose and pine sawdust, **30**, 145
Kinetics and mechanism of the thermal degradation of poly-*p*-chloromethylstyrene. Thermogravimetric and gas chromatography-mass spectrometry studies, **13**, 171

Kinetics of the thermal decomposition of cellulose in sealed vessels at elevated pressures. Effects of the presence of water on the reaction mechanism, **26**, 159
Pyrolysis of tetraphenyl imidodiphosphate, **23**, 217
Solid weight loss in the thermal decomposition of cellulose and pine sawdust, **24**, 257
Studies on thermal decomposition of nitrocellulose by pyrolysis-gas chromatography, **14**, 163
Study of the thermal decomposition of lanthanum and chromium citrate hydrates, **22**, 187
The effects of heat and mass transport on the results of thermal decomposition studies Part 2 Polystyrene, polytetrafluoroethylene and polypropylene, **11**, 83
The thermal stability of aliphatic polyesters and polyester-alkali metal salt complexes, **22**, 139
The use of pyrolysis-gas chromatography/mass spectroscopy in the analysis of cured polyfunctional epoxy resins, **21**, 207
Thermal behavior and mass spectrometry studies of 2-oxazolidinone derivatives, **24**, 291
Thermal decomposition behavior of oil shale kerogens observed by stepwise pyrolysis-gas chromatography, **24**, 273
Thermal decomposition of aryl-alicyclic polyimides studied by thermogravimetry/mass spectrometry and pyrolysis-gas chromatography/mass spectrometry, **23**, 229
Thermal decomposition of decabromodiphenyl ether, **13**, 277
Thermal decomposition of pentachlorobenzene, hexachlorobenzene and octachlorostyrene in air, **14**, 25
Thermal decomposition of potassium chlorate in the presence of chromium(III) oxide, **28**, 219
Thermal decomposition of propane: an original method of temperature calibration in a plug flow pyrolysis apparatus, **21**, 15
Thermal degradation
An investigation of the thermal degradation of poly(ethylene glycol), **30**, 47
Pyrolysis behaviour of a styrene-ethylene (styrene-hydrogenated butadiene) copolymer, **15**, 261
Pyrolysis of poly-4-vinylpyridine: degradation mechanism and structural analysis, **12**, 135
Pyrolysis-gas chromatography/mass spectrometry of amino acids, **24**, 123
Studies on the thermal degradation of butyl rubber, **27**, 207
Thermal degradation mechanisms
Pyrolysis-gas chromatography-mass spectrometry of two trimeric lignin model compounds with alkyl-aryl ether structure, **14**, 135
Studies on thermal degradation of epoxy resins by high-resolution pyrolysis-gas chromatography, **12**, 97
Thermal degradation of chlorinated polystyrenes, **28**, 205
Thermal degradation products of poly(styrenesulfides) investigated by direct pyrolysis-mass spectrometry and flash pyrolysis-gas chromatography/mass spectrometry, **29**, 207
Thermal desorption
Direct analysis of polypropylene compounds by thermal desorption and pyrolysis-mass spectrometry, **26**, 65
The characterisation of two Australian bituminous coals and isolated maceral fractions by sequential pyrolysis-gas-chromatography/mass spectrometry, **20**, 151
Thermal desorption as an analytical technique in biomarker analysis of immature coals, **18**, 41
Thermal oil recovery
Influence of reservoir rock composition on crude oil pyrolysis and combustion, **27**, 87
Thermal simulation
Thermal simulations of the evolution of carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, II and III, **17**, 329
"Thermal slice"
Development of multiple cold trap pyrolysis, **28**, 167
Thermal stability
Direct infrared spectroscopic evidence of allyl radical and dehnition of the initiation step in thermal decomposition of cycloalkanes. A comparison with very low pressure pyrolysis of alkenes, **21**, 79

Thermal degradation characteristics of high impact polystyrene/decabromodiphenylether/antimony oxide studied by derivative thermogravimetry and temperature resolved pyrolysis mass spectrometry. Formation of polybrominated dibenzofurans, antimony (oxy)bromides and brominated styrene oligomers, **20**, 303
Thermal desorption system
Development of a Curie-point thermal desorption system and its application to the analysis of atmospheric dusts, **15**, 217
Studies on the thermal degradation of polyphenyl-as-triazines by high resolution pyrolysis gas chromatography/mass spectrometry and thermogravimetry, **26**, 145
Thermal volatilisation analysis
Degradation of synthetic polymers: application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
Thermal Waste Recycling Process
The Siemens Thermal Waste Recycling Process - a modern technology for converting waste into usable products, **27**, 15
Thermobalance
A new apparatus to measure the reaction rates of wood and coal char in a high-pressure environment, **15**, 307
Thermochemical processing
Influence of metal ions and of salts on products from pyrolysis of wood: applications to thermochemical processing of newsprint and biomass, **21**, 133
Thermodesorption
Analysis of confined pyrolysis effluents by thermodesorption-multidimensional gas chromatography, **29**, 137
Thermogravimetric analysis
An investigation of the insoluble carbonaceous material in airborne particulates from vehicular traffic, **14**, 83
Analysis of coal by thermogravimetry-Fourier transform infrared spectroscopy, **19**, 1
Carbohydrate pyrolysis. I. A continuous mass spectrometric method for the analysis of the resulting gaseous mixture, **11**, 341
Degradation of synthetic polymers application of some pyrolysis methods in an investigation of the degradation behaviour of ionomers containing methacrylate salt units, **11**, 163
High temperature pyrolysis of novolac resin biomass composites, **30**, 161
Interpreting isothermal thermogravimetric data of complex reactions: application to cellulose pyrolysis at low temperatures, **15**, 347
Investigations on the formation of potassium tetramolybdate via thermal decomposition of a new oxomolybdenum(VI) oxalato complex, **18**, 91
Kinetics and mechanism of the thermal degradation of poly-*p*-chloromethylstyrene. Thermogravimetric and gas chromatography-mass spectrometry studies, **13**, 171
Pyrolysis kinetics of lignocellulosic materials by multistage isothermal thermogravimetry, **13**, 123
Pyrolysis of peat studied by thermogravimetry and Fourier transform infrared spectroscopy, **15**, 297
Pyrolysis-gas chromatography-mass spectrometry of two trimeric lignin model compounds with alkyl-aryl ether structure, **14**, 135
Reaction products of triglycidyl isocyanurate with orthophosphoric and polyphosphoric acids: thermal behaviour and pyrolysis studies, **11**, 263
The effects of heat and mass transport on the results of thermal decomposition studies Part 1. The three reactions of calcium oxalate monohydrate, **11**, 71
Thermal behaviour of polybenzhydrolimides, **11**, 251
Thermogravimetric kinetic study of the pyrolysis of almond shells and almond shells impregnated with $CoCl_2$, **21**, 249
Thermogravimetry
A thermoanalytic study of metal acetylacetonates, **21**, 315
Kinetics of cellulose pyrolysis modelled by three consecutive first-order reactions, **17**, 37
Non-isothermal decomposition of nickel acetate tetrahydrate, **27**, 109
Studies on the thermal degradation of

polyphenyl-as-triazines by high resolution pyrolysis-gas chromatography/mass spectrometry and thermogravimetry, **26**, 145
The thermal degradation of poly(aryl-ether-ether-ketone) (PEEK) as monitored by pyrolysis-GC/MS and TG/MS, **18**, 163
Thermal decomposition of aryl-alicyclic polyimides studied by thermogravimetry/mass spectrometry and pyrolysis-gas chromatography/mass spectrometry, **23**, 229
Thermolysis
Molecular rearrangements of sulfur compounds. Thermolysis and photolysis of arenesulfonate aryl esters, **29**, 65
Thermolysis of alkylfuryl alcohols, **12**, 11
Thermolysis mass spectrometry
Thermolysis mass spectrometry study of the decomposition or $HSiCl_3$, $MeHSiCl_2$ and chlorodisilanes, **28**, 93
Thermolytic decomposition
Thermolytic decomposition of coniferyl alcohol, **23**, 195
Thiazolidinones
Molecular rearrangements of sulphur compounds. Part 3. Pyrolysis of substituted thiazolidinones, **22**, 107
Thin-layer chromatography
Pyrolysis-gas chromatography of separated zones on thin-layer chromatograms, IV, Application to the determination of some sulfonamide drugs, **14**, 323
Thioether derivatives
Thermolysis of some thioether derivatives, **23**, 57
Thiophene
A review of biomarkers in kerogens as determined by pyrolysis-gas chromatography and pyrolysis-gas chromatography-mass spectrometry, **11**, 93
Flash pyrolysis of coal, coal maceral, and coal-derived pyrite with on-line characterization of volatile sulfur compounds, **13**, 199
Thiophenol/formaldehyde resin
Preparation of a thiophenol/formaldehyde resin; its structure and the mechanism of its pyrolysis, **28**, 231
Timahdit oil shale
Gas evolution during isothermal pyrolysis of Timahdit oil shale, **21**, 119
Time of flight mass spectrometry
Laser desorption multiphoton ionization mass spectrometry, **20**, 47
Pyrolysis studies of name retarded plastic systems, **11**, 499
Time-resolved field ionization mass spectrometry
Analytical pyrolysis and environmental research, **15**, 3
Time-resolved mass spectrometry
Trimer formation studies in polystyrene pyrolysis reveal that time-resolved mass spectrometry can be misleading, **19**, 319
Tires
Characterization of used tire vacuum pyrolysis oil: nitrogenous compounds from the naphtha fraction, **22**, 205
Determination of styrene-butadiene and isoprene tire tread rubbers in piled particulate matter, **15**, 227
Titanium carbonitride
Thermoanalytic studies of the pyrolysis of $CpTiCl_2N(SiMe_3)_2$ and its use as a precursor for the chemical vapor deposition of titanium carbonitride, **24**, 39
Toarcian oil shales
Evolution of individual hydrocarbons (C_1-C_4) by nonisothermal pyrolysis of petroleum source rocks, **22**, 61
Kinetic evaluations of the individual hydrocarbon (C_1-C_4) generation by nonisothermal source rock pyrolysis, **28**, 121
Tobacco
Characterization of tobacco lignin by analytical pyrolysis and Fourier transform-infrared spectroscopy, **22**, 239
Characterization of thermolysis products of cuticular wax compounds of green tobacco leaf, **17**, 25
Characterization of tobacco lignin preparations by Curie-point pyrolysis-mass spectrometry and Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry, **15**, 97
Micro-analytical investigations on lignin in enzyme-digested tobacco lamina and midrib using pyrolysis-mass spectrometry and Curie-point pyrolysis-gas chromatography mass spectrometry, **19**, 153
Recent advances in studies on the

pyrosynthesis of cigarette smoke constituents (Review), **12**,193
Thermolysis of some thioether derivatives, **23**, 57
Tobacco leaf
Pyrolytic evaluation of low chlorogenic acid tobaccos in the formation of the tobacco smoke co-carcinogen catechol, **22**, 231
Tobacco smoke
Pyrolytic evaluation of low chlorogenic acid tobaccos in the formation of the tobacco smoke co-carcinogen catechol, **22**, 231
Tobacco smoke and smoking
A review of pyrolysis studies to unravel reaction steps in burning tobacco, **11**, 555
Topography
Microscopic investigations of the surface of carbon-silica adsorbents with consideration of heterogeneity of carbon layer studied by transmission electron microscopy, and its correlation with adsorption data, **14**, 203
Topography and morphology of the carbon deposit obtained by pyrolysis of methylene chloride on a silica gel surface, **13**, 89
Torbanites
Thermal simulations of the evolution of carbonaceous oil-source rocks as compared with pyrolysis of model substances of types I, II and III, **17**, 329
Toxicity
Analysis and toxicity testing of combustion gases. I. A new sampling unit for collection of combustion products, **28**, 1
Evaluation of the thermal decomposition apparatus used for toxicity testing of hydraulic fluids, **23**, 43
Thermal decomposition of polystyrene: volatile compounds from large-scale pyrolysis, **18**, 143
Trace determination
Trace determination of high molecular weight polyvinylpyrrolidone by pyrolysis-gas chromatography, **17**, 251
Transition metal complexes
Studies on the flame-retardant properties of transition metal complexes of cellulose ammonium phosphate, **11**, 465
Transmission electron microscopy
Microscopic investigations of the surface of carbon-silica adsorbents with consideration of heterogeneity of carbon layer studied by transmission electron microscopy, and its correlation with adsorption data, **14**, 203
Trichlorosilane
Role of the trichlorosilyl radical and dichlorosilylene in gas-phase reactions of trichlorosilane, **28**, 81
Trichlorosilyl radical
Role of the trichlorosilyl radical and dichlorosilylene in gas-phase reactions of trichlorosilane, **28**, 81
Trifluoroacetaldehyde
IR laser-induced pyrolysis of CF_3CHO and CF_3CDO in the presence of oxygen, **18**, 175
Triglycidyl isocyanurate
Reaction products of triglycidyl isocyanurate with orthophosphoric and polyphosphoric acids: thermal behaviour and pyrolysis studies, **11**, 263
Trimer formation
Trimer formation studies in polystyrene pyrolysis reveal that time-resolved mass spectrometry can be misleading, **19**, 319
Trimethyl(methoxy)silane
Laser-induced decomposition of trimethyl(methoxy)silane hexamethyldisiloxane and tetramethoxysilane for production of silicon-containing coatings, **18**, 71
Triphenylisocyanurate
Kinetics of triphenylisocyanurate pyrolysis, **24**, 179
Tropical rain forest
Analysis of leaf and fine root litter from a subtropical montane rain forest by pyrolysis gas chromalography/mass spectrometry, **27**, 1
Two-patches adsorbents
Microscopic investigations of the surface of carbon-silica adsorbents with consideration of heterogeneity of carbon layer studied by transmmssion electron microscopy, and its correlation with adsorption data, **14**, 203
Factors affecting the yields produced from the two-stage pyrolysis of Egyptian bitumen, **17**, 153
Tyre pyrolysis oils
The molecular weight range of pyrolytic oils derived from tyre waste, **29**, 111

l-Undecene
Mineral-catalysed transformations of terminal alkenes during pyrolysis, **14**, 191
UNSCRAMBLER Il-EX
Software review: UNSCRAMBLER Il-EX, Version 3.42*, **24**, 197
Uronic acids
Characterization of the saccharide composition of heteropolysaccharides by pyrolysis-capillary gas chromatography-mass spectrometry, **11**, 297
UV spectrometry
Characterization of poly(styrene-dimethyl-siloxane) block copolymer by high-resolution pyrolysis-gas chromatography/mass spectrometry, **18**, 7

Vacuum Curie-point pyrolyser
A comparison of products from an air atmosphere tube furnace with a vacuum Curie-point pyrolyser: implications for biodetection, **24**, 211
Vacuum pyrolysis
Influence of acid pretreatmcnt (H_2SO_4, HCl, HNO_3) on reaction selectivity in the vacuum pyrolysis of cellulose, **27**, 75
Vacuum pyrolysis of cellulose: Fourier transform infrared characterization of solid residues, product distribution and correlations, **19**, 81
Vapor grown carbon fibers
Vapor grown carbon fibers: modeling of filament length distributions, **28**, 255
Vermicomposts
Evidence of lignin residues in humic acids isolated from vermicomposts, **15**, 121
Very low pressure
Thermal reactions of decalin. II. A mass spectrometric study, **18**, 33
Vinyl acetate
Laser powered homogeneous decomposition of vinyl acetate, **26**, 21
Vitrinite
The characterisation of two Australian bituminous coals and isolated maceral fractions by sequential pyrolysis-gas-chromatography/mass spectrometry, **20**, 151
Volatilization
Effects of an intense thermal flux on a lignocellulosic material, **21**, 305

Waste
Polycyclic aromatic hydrocarbons in waste derived pyrolitic oils, **30**, 17
Water
Kinetics of the thermal decomposition of cellulose in sealed vessels at elevated pressures Effects of the presence of water on the reaction mechanism, **26**, 159
Waxes
Pyrolysis-mass spectrometry of natural gums, resins, and waxes and its use for detecting such materials in ancient Egyptian mummy cases (cartonnages), **11**, 195
Wet chemistry
Studies on the composition and formation of soil organic matter in terrestrial soils by wet-chemical methods and pyrolysis-field ionization mass spectrometry, **27**, 169
Wheat cultivars
Winter wheat cultivar differentiation by Curie point pyrolysis-gas chromatography pattern recognition of whole seeds: a feasibility study, **22**, 1
Wheat straw
Pyrolysis-gas chromatography/mass spectrometry of wheat straw fractions obtained by alkaline treatments used in pulping processes, **27**, 57
White-rot fungi
An analytical pyrolysis mass spectrometric study of *Eucryphia cordifolia* wood decayed by white-rot and brown-rot fungi, **19**, 175
Whole soils
Pyrolysis and soft ionization mass spectrometry of aquatic/terrestrial humic substances and soils, **12**, 149
Willstatter procedure
Characterization of tobacco lignin preparations by Curie-point pyrolysis-mass spectrometry and Curie-point pyrolysis-high-resolution gas chromatography/mass spectrometry, **15**, 97
Winter wheat
Winter wheat cultivar differentiation by Curie point pyrolysis-gas chromatography pattern recognition of whole seeds: a feasibility study, **22**, 1
Wood
A new apparatus to measure the reaction rates of wood and coal char in a high-pressure environment, **15**, 307

An analytical pyrolysis mass spectrometric study of *Eucryphia cordifolia* wood decayed by white-rot and brown-rot fungi, **19**, 175
Chemical characterization of recent and buried woods by analytical pyrolysis. Comparison of pyrolysis data with ^{13}C NMR and wet chemical data, **11**, 437
Dilatometry of wood. Part I. Longitudinal dilatometry of wood untreated and treated with ammonium phosphate, **23**, 175
Dilatometry of wood. Part II. Longitudinal dilatometry of wood treated with sodium borate, ammonium bromide, and sodium chloride, **23**, 245
Experimental approach to the catalyzed cracking reaction of tar from wood pyrolysis, **21**, 265
First chemical events in pyrolysis of wood, **13**, 221
Influence of metal ions and of salts on products from pyrolysis of wood: applications to thermochemical processing of newsprint and biomass, **21**, 133
Influence of particle size and pyrolysis conditions on yield. density and some textural parameters of chars prepared from holm-oak wood, **12**, 61
Kinetic parameters of the cracking reaction of tar from wood pyrolysis; comparison of dolomite with industrial catalysts, **22**, 47
Method of determining catalyst lifetime in the cracking reaction of tar from wood pyrolysis, **22**, 39
Lignin derived oils from the fast pyrolysis of poplar wood, **12**, 51
Pyrolysis and combustion of peat and wood as single particles and as a layer, **11**, 149
Pyrolysis kinetics of lignocellulosic materials by multistage isothermal thermogravimetry, **13**, 123 Wood
Studies on isolated lignins and lignins in woody materials by pyrolysis-gas chromatography-mass spectrometry and off-line pyrolysis-gas chromatography with flame ionization detection, **11**, 403
Volatile products of oxidative pyrolysis of wood: influence of metal ions, **17**, 261
Wood, beech
Characterisation of beech wood and its holocellulose and xylan fractions by pyrolysis-gas chromatography-mass spectrometry, **11**, 417
Wood biomass
An investigation of the factors controlling the pyrolysis product yield of Greek wood biomass in a fluidized bed, **18**, 127
Wood pulps
Quantitative analysis of saccharides in wood pulps by quartz-tube pulse pyrolysis-polar phase gas chromatography, **19**, 105
Wood resin
Characterization of impurities in pulp and paper using pyrolysis-gas chromatography/mass spectrometry, including direct methylation, **27**, 73

X-ray diffraction
Investigations on the formation of potassium tetramolybdate via thermal decomposition of a new oxomolybdenum(VI) oxalato complex, **18**, 91
Xylan
Analysis of beech wood samples, its milled wood lignin and polysaccharide fractions by platinum filament pyrolysis-mass spectrometry, **17**, 97
Characterisation of beech wood and its holocellulose and xylan fractions by pyrolysis-gas chromatography-mass spectrometry, **11**, 417
Solid weight loss in the thermal decomposition of cellulose and pine sawdust, **24**, 257
Xylose
Quantitative analysis of saccharides in wood pulps by quartz-tube pulse pyrolysis-polar phase gas chromatography, **19**, 105

Yield
Comparison of effects of bed depth and particle size on volatiles produced by slow pyrolysis of coal, **28**, 45

Zeolites
Thermolysis of low density polyethylene catalysed by zeolites, **29**, 45
Zinc(II)
A thermoanalytic study of metal acetylacetonates, **21**, 315
Zinc borate

acetylacetonates, **21**, 315
Zinc borate
Pyrolysis studies of flame retarded
plastic systems, **11**, 499